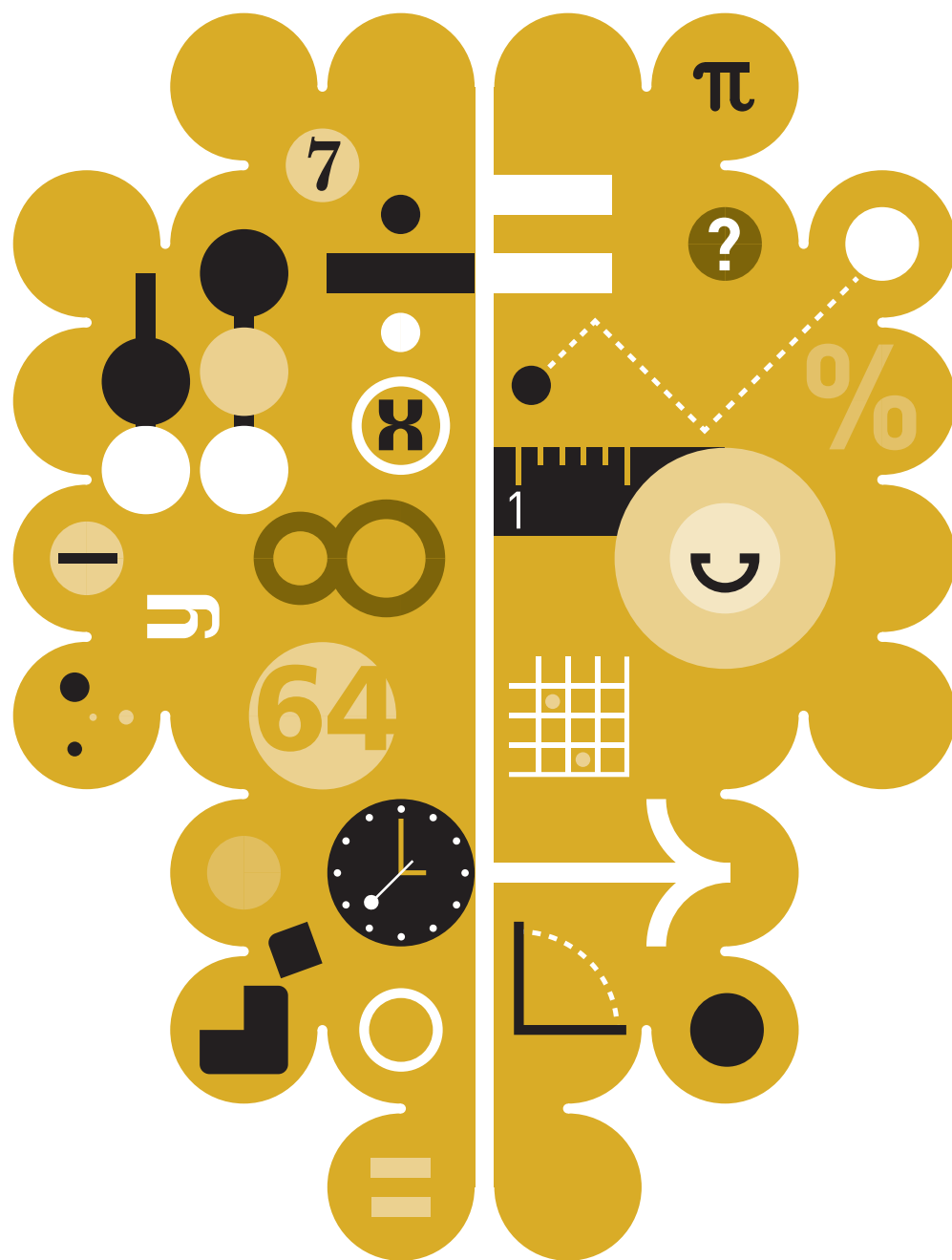


# Mental Arithmetic



## Introductory Book Answers



Schofield & Sims





Name \_\_\_\_\_

A Answer

1  +  = 7


2  -  = 7

3  -  = 3 4

4  +  = 6p

5  -  = 9p

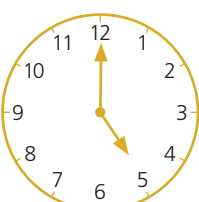
6  -  = 4p 5p

7  Write the name of this shape. square

8 Which pencil is longer? A



9 Which day comes after Tuesday? Wednesday

10  What time is it? 5 o'clock

B Answer

1  $4 + 1 =$  5

2  $14 + 1 =$  15

3  $24 + 1 =$  25


4 14, 15, 16, 17,  18

5  $7 - 1 =$  6

6  $17 - 1 =$  16

7  $27 - 1 =$  26

8 27, 26, 25, 24,  23

9  + 1 = 4 3

10  - 1 = 8 9

C Answer

1 Add 7 and 1. 8

2 Take 1 from 5. 4

3 The total of 8 and 1 is 9

4 The difference between 1 and 6 is 5

5 The sum of 1 and 9 is 10

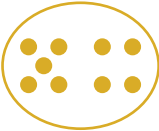

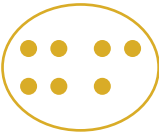

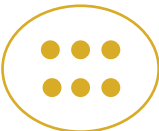









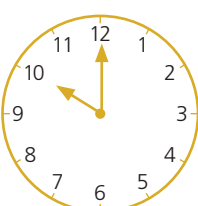
6 3 is 1 more than 2





7 Subtract 1 from 9. 8

8 4 minus 1 is 3

9 1 less than 8 is 7

10 1 plus 6 is 7

| A  | Answer     |
|--|------------|
| 1  +  = _____        | 11         |
| 2  -  = _____        | 5          |
| 3  -  = 4 _____      | 2          |
| 4  +  = _____        | 7p         |
| 5  -  = _____      | 8p         |
| 6  -  = 8p _____ | 10p        |
| 7  Write the name of this shape. _____  | triangle   |
| 8  Which ball is heavier? _____   | A          |
| 9 Which day comes before Saturday? _____   | Friday     |
| 10  What time is it? _____  | 10 o'clock |

| B   | Answer |
|---|--------|
| 1 $6 + 2 =$ _____   | 8      |
| 2 $16 + 2 =$ _____  | 18     |
| 3 $26 + 2 =$ _____  | 28     |
| 4 16, 18, 20, 22,  _____ | 24     |
| 5 $5 - 2 =$ _____   | 3      |
| 6 $15 - 2 =$ _____  | 13     |
| 7 $25 - 2 =$ _____  | 23     |
| 8 25, 23, 21, 19,  _____ | 17     |
| 9  + $2 = 4$ _____         | 2      |
| 10  - $2 = 8$ _____      | 10     |

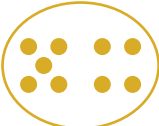
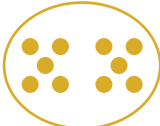
  

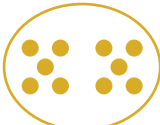
| C   | Answer |
|---|--------|
| 1 Add 8 and 2. _____                      | 10     |
| 2 Take 2 from 9. _____                    | 7      |
| 3 The total of 6 and 2 is _____           | 8      |
| 4 The difference between 2 and 8 is _____ | 6      |
| 5 The sum of 2 and 9 is _____             | 11     |
| 6 4 is 2 more than _____                  | 2      |
| 7 Subtract 2 from 5. _____                | 3      |
| 8 3 minus 2 is _____                      | 1      |
| 9 2 less than 6 is _____                  | 4      |
| 10 2 plus 7 is _____                      | 9      |

# SECTION 1 | Test 3

Schofield & Sims

## A Answer


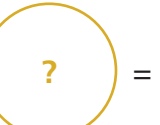
1  +  = 19


2  -  = 5

3  -  = 10 5

4  +  = 15p

5  -  = 10p

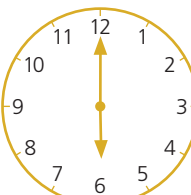
6  +  = 12p 10p

7  Write the name of this shape. rectangle/oblong

8 Which glass is full? B



9 Which day comes after Monday? Tuesday

10  What time is it? 6 o'clock

## B Answer

1  $3 + 10 =$  13

2  $13 + 10 =$  23

3  $23 + 10 =$  33

4 13, 23, 33, 43,  53

5  $11 - 10 =$  1

6  $21 - 10 =$  11

7  $31 - 10 =$  21

8 51, 41, 31, 21,  11

9  + 10 = 46 36

10  - 10 = 27 37

## C Answer

1 Add 10 and 3. 13

2 Take 10 from 19. 9

3 The total of 10 and 5 is 15

4 The difference between 15 and 10 is 5

5 The sum of 10 and 6 is 16

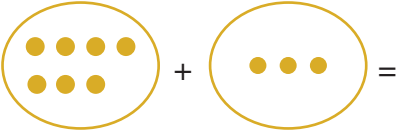


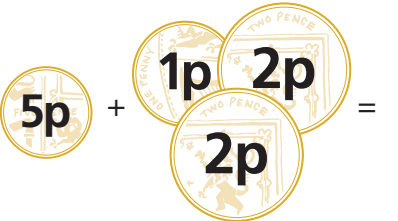

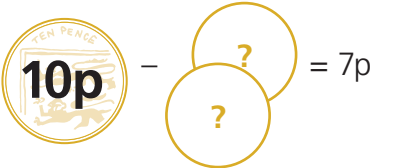



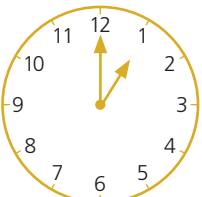
6 12 is 10 more than 2




7 Subtract 10 from 18. 8

8 11 minus 10 is 1

9 10 is 4 less than 14

10 10 plus 7 is 17

| A  | Answer    |
|--|-----------|
| 1  = _____  | 10        |
| 2  = _____  | 4         |
| 3  = 2 _____  | 8         |
| 4  = _____  | 10p       |
| 5  = _____   | 5p        |
| 6  = 7p _____   | 2p 1p     |
| 7  Write the name of this shape. _____  | circle    |
| 8 Which pencil is shorter?<br>A <br>B  | B         |
| 9 Which day comes before Friday? _____   | Thursday  |
| 10  What time is it? _____  | 1 o'clock |

| B   | Answer |
|---|--------|
| 1 $6 + 4 =$ _____   | 10     |
| 2 $16 + 4 =$ _____  | 20     |
| 3 $46 + 4 =$ _____  | 50     |
| 4 26, 36, 46, 56,  _____ | 66     |
| 5 $10 - 3 =$ _____  | 7      |
| 6 $20 - 3 =$ _____  | 17     |
| 7 $30 - 3 =$ _____  | 27     |
| 8 67, 57, 47, 37,  _____ | 27     |
| 9  + 5 = 10 _____          | 5      |
| 10 $10 - \text{square} = 9$ _____   | 1      |


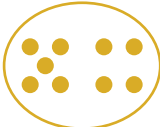
  


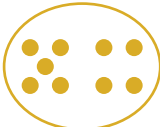
| C  | Answer |
|--|--------|
| 1 Add 3 and 7. _____                       | 10     |
| 2 Take 9 from 10. _____                    | 1      |
| 3 The total of 8 and 2 is _____            | 10     |
| 4 The difference between 5 and 10 is _____ | 5      |
| 5 The sum of 4 and 6 is _____              | 10     |
| 6 10 is 3 more than _____                  | 7      |
| 7 Subtract 8 from 10. _____                | 2      |
| 8 10 minus 1 is _____                      | 9      |
| 9 6 is 4 less than _____                   | 10     |
| 10 2 plus 8 is _____                       | 10     |

# SECTION 1 | Test 5

Schofield & Sims

## A Answer

1  +  = 15


2  -  = 3


3  -  = 3 12

4  +  = 14p


5  -  = 11p

6  -  = £1 £10

7  Write the name of this shape. hexagon

8  Which ball is lighter? A

9 Which day comes after Sunday? Monday

10  What time is it? 7 o'clock

## B Answer

1  $7 + 9 =$  16

2  $17 + 9 =$  26

3  $27 + 9 =$  36

4  $9, 18, 27, 36,$   45

5  $14 - 9 =$  5

6  $24 - 9 =$  15

7  $44 - 9 =$  35

8  $54, 45, 36, 27,$   18

9  +  $9 = 15$  6

10  $12 -$    $= 9$  3

## C Answer

1 Add 4 and 9. 13

2 Take 9 from 14. 5

3 The total of 9 and 5 is 14

4 The difference between 12 and 9 is 3

5 The sum of 9 and 8 is 17

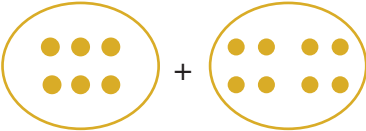
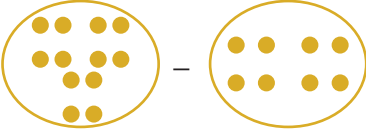
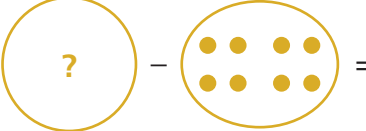




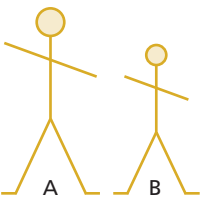
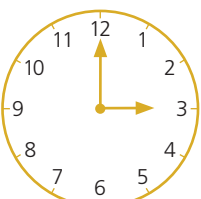
6 12 is 9 more than 3

7 Subtract 9 from 13. 4

8 15 minus 9 is 6

9 9 is 7 less than 16

10 9 plus 3 is 12

| A   | Answer    |
|---|-----------|
| 1  = _____                               | 14        |
| 2  = _____                               | 4         |
| 3  = 3 _____                             | 11        |
| 4  = _____                               | 13p       |
| 5  = _____                              | 12p       |
| 6  = 12p _____                         | 20p       |
| 7  Write the name of this shape. _____ | pentagon  |
| 8  Which person is taller? _____       | A         |
| 9 Which day comes before Thursday? _____  | Wednesday |
| 10  What time is it? _____             | 3 o'clock |

| B                            | Answer |
|------------------------------|--------|
| 1 $5 + 8 =$ _____            | 13     |
| 2 $15 + 8 =$ _____           | 23     |
| 3 $35 + 8 =$ _____           | 43     |
| 4 8, 16, 24, 32, _____       | 40     |
| 5 $14 - 8 =$ _____           | 6      |
| 6 $24 - 8 =$ _____           | 16     |
| 7 $44 - 8 =$ _____           | 36     |
| 8 48, 40, 32, 24, _____      | 16     |
| 9 _____ + 8 = 15 _____       | 7      |
| 10 $12 - \text{ } = 8$ _____ | 4      |

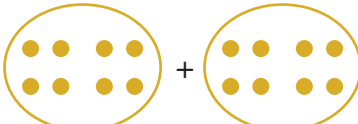
  

| C  | Answer |
|--|--------|
| 1 Add 7 and 8. _____                       | 15     |
| 2 Take 8 from 14. _____                    | 6      |
| 3 The total of 8 and 4 is _____            | 12     |
| 4 The difference between 15 and 8 is _____ | 7      |
| 5 The sum of 8 and 3 is _____              | 11     |
| 6 12 is 8 more than _____                  | 4      |
| 7 Subtract 8 from 13. _____                | 5      |
| 8 11 minus 8 is _____                      | 3      |
| 9 8 is 5 less than _____                   | 13     |
| 10 8 plus 6 is _____                       | 14     |

# SECTION 1 | Test 7

Schofield & Sims

## A Answer

1  = 16


2  = 6

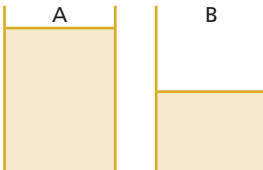
3  = 4 4

4  = 14p

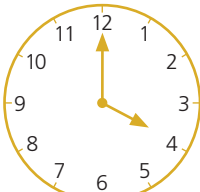
5  = £10

6  = 5p 10p

7  How much is shaded? half

8  Which glass is half full? B

9 If today is Monday, what was yesterday? Sunday

10  What time is it? 4 o'clock

## B Answer

1  $6 + 6 =$  12

2  $16 + 6 =$  22

3  $26 + 6 =$  32

4 1, 2, 4, 8, 16

5  $16 - 8 =$  8

6  $26 - 8 =$  18

7  $36 - 8 =$  28

8 16, 8, 4, 2, 1

9 9 + 9 = 18

10 14 - 7 = 7

## C Answer

1 Add 8 and 8. 16

2 Take 7 from 14. 7

3 The total of 5 and 5 is 10

4 The difference between 18 and 9 is 9

5 The sum of 6 and 6 is 12

6 8 is 4 more than 4

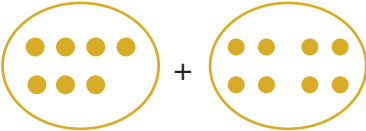
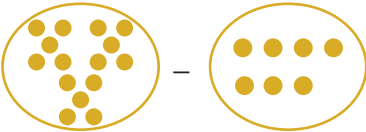
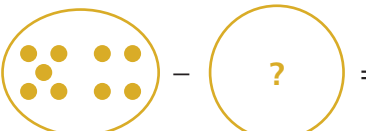



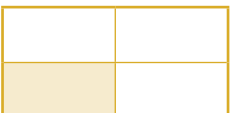
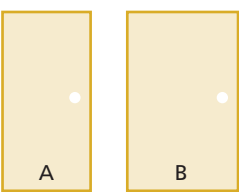
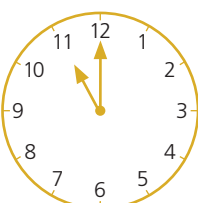
7 Subtract 5 from 10. 5

8 6 minus 3 is 3

9 7 is 7 less than 14

10 9 plus 9 is 18



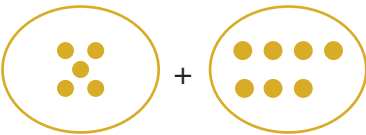
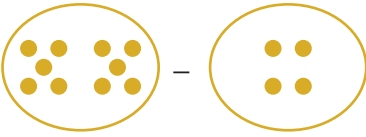
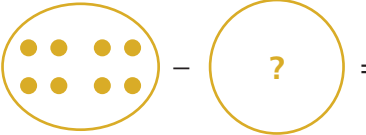


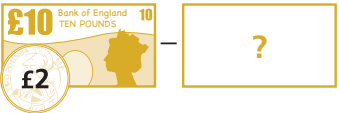
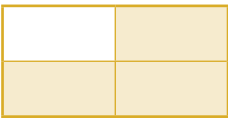


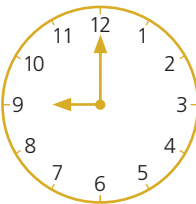
| A  | Answer     |
|--|------------|
| 1  = _____                      | 15         |
| 2  = _____                      | 8          |
| 3  = 4 _____                    | 5          |
| 4  = _____                      | 11p        |
| 5  = _____                     | 6p         |
| 6  = 6p _____                 | 5p         |
| 7  How much is shaded? _____  | quarter    |
| 8  Which door is wider? _____ | B          |
| 9 If today is Wednesday, what was yesterday? _____   | Tuesday    |
| 10  What time is it? _____    | 11 o'clock |

| B                       | Answer |
|-------------------------|--------|
| 1 $3 + 4 =$ _____       | 7      |
| 2 $13 + 4 =$ _____      | 17     |
| 3 $53 + 4 =$ _____      | 57     |
| 4 3, 7, 11, 15, _____   | 19     |
| 5 $9 - 4 =$ _____       | 5      |
| 6 $19 - 4 =$ _____      | 15     |
| 7 $39 - 4 =$ _____      | 35     |
| 8 29, 25, 21, 17, _____ | 13     |
| 9 _____ + 5 = 11 _____  | 6      |
| 10 _____ - 7 = 8 _____  | 15     |





  

| C   | Answer |
|---|--------|
| 1 Add 6 and 7. _____                      | 13     |
| 2 Take 9 from 19. _____                   | 10     |
| 3 The total of 6 and 5 is _____           | 11     |
| 4 The difference between 5 and 9 is _____ | 4      |
| 5 The sum of 4 and 3 is _____             | 7      |
| 6 5 is 2 more than _____                  | 3      |
| 7 Subtract 7 from 15. _____               | 8      |
| 8 17 minus 8 is _____                     | 9      |
| 9 5 is 6 less than _____                  | 11     |
| 10 8 plus 7 is _____                      | 15     |

A Answer

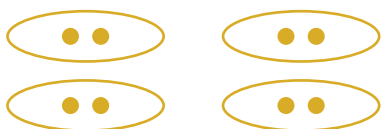






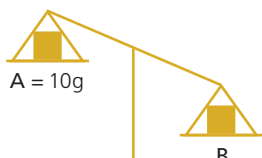
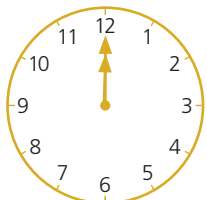
- 1  = 12
- 2  = 6
- 3  = 5
- 4  = 12p
- 5  = 5p
- 6  = £7 5p
- 7  How much is shaded? three-quarters
- 8 How much longer is A than B? 8cm  
A  14cm  
B  6cm
- 9 If today is Friday, what will tomorrow be? Saturday
- 10  What time is it? 9 o'clock

B Answer

- 1  $5 + 3 =$  8
- 2  $15 + 3 =$  18
- 3  $35 + 3 =$  38
- 4 5, 8, 11, 14,  17
- 5  $7 - 5 =$  2
- 6  $17 - 5 =$  12
- 7  $57 - 5 =$  52
- 8 37, 32, 27, 22,  17
- 9  + 5 = 8 3
- 10  - 7 = 5 12

C Answer

- 1 Add 6 and 8. 14
- 2 Take 9 from 15. 6
- 3 The total of 3 and 5 is 8
- 4 The difference between 5 and 12 is 7
- 5 The sum of 4 and 6 is 10
- 6 6 is 2 more than 4
- 7 Subtract 7 from 12. 5
- 8 18 minus 8 is 10
- 9 1 is 3 less than 4
- 10 9 plus 7 is 16

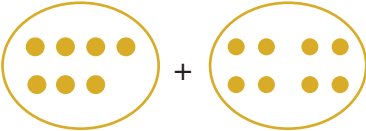
| A   | Answer      |
|---|-------------|
| 1 Turn the picture into a sum.<br>                   | 4 sets of 2 |
| 2 Turn the picture into a sum.<br>                   | 2 sets of 3 |
| 3  $\times 6 =$ _____                                | 12          |
| 4  $\div 2 =$ _____                                  | 4           |
| 5 How much altogether?<br>                          | £20         |
| 6  $\times$ _____ $= 10p$ _____                    | 5           |
| 7  $\div 2 =$ _____                                | 10p         |
| 8  B is twice as heavy as A. How heavy is B? _____ | 20g         |
| 9 If today is Sunday, what was yesterday? _____   | Saturday    |
| 10  What time is it? _____                         | 12 o'clock  |

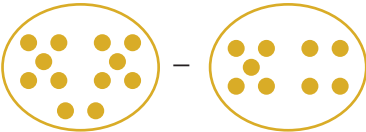
| B                                     | Answer |
|---------------------------------------|--------|
| 1 2, 4, 6, 8, _____                   | 10     |
| 2 $2 + 2 + 2 =$ _____                 | 6      |
| 3 $3 \times 2 =$ _____                | 6      |
| 4 $2 + 2 + 2 + 2 + 2 + 2 + 2 =$ _____ | 14     |
| 5 $7 \times 2 =$ _____                | 14     |
| 6 20, 18, 16, _____, 12               | 14     |
| 7 $6 - 2 - 2 - 2 =$ _____             | 0      |
| 8 $6 \div 2 =$ _____                  | 3      |
| 9 $14 \div 2 =$ _____                 | 7      |
| 10 $12 \div 2 =$ _____                | 6      |

| C  | Answer |
|--|--------|
| 1 8 sets of 2 are _____                        | 16     |
| 2 How many twos in 10? _____                   | 5      |
| 3 4 twos are _____                             | 8      |
| 4 How many 2p coins make 20p? _____            | 10     |
| 5 9 times 2 is _____                           | 18     |
| 6 6 multiplied by 2 is _____                   | 12     |
| 7 8 shared among 2 is _____                    | 4      |
| 8 Half of 18 is _____                          | 9      |
| 9 6 divided by 2 is _____                      | 3      |
| 10 How many socks are there in 10 pairs? _____ | 20     |

A Answer

1  = 15

2  = 3

3  = 6 4

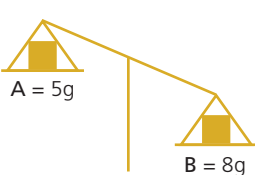
4  = 9p

5  = 13p

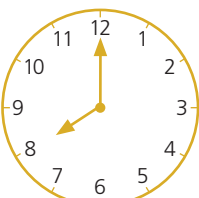
6  = 7p 5p

7 Which shape is cut in half? B



8  How much heavier is B? 3g

9 If today is Thursday, what will tomorrow be? Friday

10  What time is it? 8 o'clock

B Answer

1  $6 + 7 =$  13

2  $46 + 7 =$  53

3  $3 + 9 =$  12

4  $73 + 9 =$  82

5 1, 3, 5, 7, 9

6  $18 - 9 =$  9

7  $38 - 9 =$  29

8  $17 - 10 =$  7

9  $57 - 10 =$  47

10 19, 17, 15, 13, 11

C Answer

1 Add 5 and 8. 13

2 Take 6 from 11. 5

3 The total of 6 and 8 is 14

4 The difference between 13 and 4 is 9

5 The sum of 7 and 5 is 12


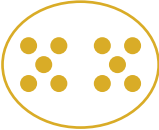








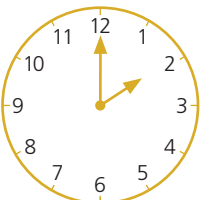
6 16 is 9 more than 7





7 Subtract 3 from 7. 4

8 17 minus 9 is 8

9 5 is 3 less than 8

10 7 plus 7 is 14

| A  | Answer    |
|--|-----------|
| 1  $\times 2 =$ _____   | 6         |
| 2  $\div 2 =$ _____   | 5         |
| 3  $-$  $= 7$ _____      | 7         |
| 4  $+$  $=$ _____        | 11p       |
| 5  $-$  $=$ £5 _____   |           |
| 6  $-$  $= 5p$ _____ | 5p        |
| 7 Which shape is cut into quarters? _____  | C         |
| 8 A is twice as long as B. How long is A? _____  | 8cm       |
| 9 If today is Saturday, what will tomorrow be? _____   | Sunday    |
| 10  What time is it? _____  | 2 o'clock |

| B   | Answer |
|---|--------|
| 1 $8 + 4 =$ _____   | 12     |
| 2 $38 + 4 =$ _____  | 42     |
| 3 $9 - 6 =$ _____   | 3      |
| 4 $29 - 6 =$ _____  | 23     |
| 5  $+ 4 = 10$ _____        | 6      |
| 6  $- 9 = 8$ _____         | 17     |
| 7 4, 6, 8, 10,  _____    | 12     |
| 8 $6 \times 2 =$ _____  | 12     |
| 9 16, 14, 12, 10,  _____ | 8      |
| 10 $18 \div 2 =$ _____  | 9      |

| C  | Answer |
|--|--------|
| 1 9 sets of 2 are _____                    | 18     |
| 2 How many twos in 14? _____               | 7      |
| 3 The total of 5 and 9 is _____            | 14     |
| 4 The difference between 6 and 15 is _____ | 9      |
| 5 The sum of 4 and 8 is _____              | 12     |
| 6 9 is 4 more than _____                   | 5      |
| 7 Subtract 7 from 16. _____                | 9      |
| 8 12 shared among 2 is _____               | 6      |
| 9 9 is 4 less than _____                   | 13     |
| 10 8 multiplied by 2 is _____              | 16     |

| Name of child<br><br>_____ |        | Diagnostic Chart for Section 1      |   |   |   |   |   |   |   |   |    |
|----------------------------|--------|-------------------------------------|---|---|---|---|---|---|---|---|----|
|                            |        | Indicate where child has difficulty |   |   |   |   |   |   |   |   |    |
|                            |        | 1                                   | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Test 1                     | Part A |                                     |   |   |   |   |   |   |   |   |    |
|                            | Part B |                                     |   |   |   |   |   |   |   |   |    |
|                            | Part C |                                     |   |   |   |   |   |   |   |   |    |
| Test 2                     | Part A |                                     |   |   |   |   |   |   |   |   |    |
|                            | Part B |                                     |   |   |   |   |   |   |   |   |    |
|                            | Part C |                                     |   |   |   |   |   |   |   |   |    |
| Test 3                     | Part A |                                     |   |   |   |   |   |   |   |   |    |
|                            | Part B |                                     |   |   |   |   |   |   |   |   |    |
|                            | Part C |                                     |   |   |   |   |   |   |   |   |    |
| Test 4                     | Part A |                                     |   |   |   |   |   |   |   |   |    |
|                            | Part B |                                     |   |   |   |   |   |   |   |   |    |
|                            | Part C |                                     |   |   |   |   |   |   |   |   |    |
| Test 5                     | Part A |                                     |   |   |   |   |   |   |   |   |    |
|                            | Part B |                                     |   |   |   |   |   |   |   |   |    |
|                            | Part C |                                     |   |   |   |   |   |   |   |   |    |
| Test 6                     | Part A |                                     |   |   |   |   |   |   |   |   |    |
|                            | Part B |                                     |   |   |   |   |   |   |   |   |    |
|                            | Part C |                                     |   |   |   |   |   |   |   |   |    |
| Test 7                     | Part A |                                     |   |   |   |   |   |   |   |   |    |
|                            | Part B |                                     |   |   |   |   |   |   |   |   |    |
|                            | Part C |                                     |   |   |   |   |   |   |   |   |    |
| Test 8                     | Part A |                                     |   |   |   |   |   |   |   |   |    |
|                            | Part B |                                     |   |   |   |   |   |   |   |   |    |
|                            | Part C |                                     |   |   |   |   |   |   |   |   |    |
| Test 9                     | Part A |                                     |   |   |   |   |   |   |   |   |    |
|                            | Part B |                                     |   |   |   |   |   |   |   |   |    |
|                            | Part C |                                     |   |   |   |   |   |   |   |   |    |
| Test 10                    | Part A |                                     |   |   |   |   |   |   |   |   |    |
|                            | Part B |                                     |   |   |   |   |   |   |   |   |    |
|                            | Part C |                                     |   |   |   |   |   |   |   |   |    |
| Test 11                    | Part A |                                     |   |   |   |   |   |   |   |   |    |
|                            | Part B |                                     |   |   |   |   |   |   |   |   |    |
|                            | Part C |                                     |   |   |   |   |   |   |   |   |    |
| Test 12                    | Part A |                                     |   |   |   |   |   |   |   |   |    |
|                            | Part B |                                     |   |   |   |   |   |   |   |   |    |
|                            | Part C |                                     |   |   |   |   |   |   |   |   |    |

These tests enable children to use mental methods to add and subtract 'teen' numbers. They should not become bogged down in exchanging tens and so on, but should use their knowledge of number bonds to find the answer.

The tests in Section 2 cover the following topics.

|         |  |  |
|---------|--|--|
| TEST 1  | Addition and subtraction, making 11                              | Add/subtract the 10 then the units               |
| TEST 2  | Addition and subtraction, making 12                              | or   |
| TEST 3  | Addition and subtraction, making 13                              | Add/subtract the units then the 10               |
| TEST 4  | Addition and subtraction, making 14                              | Use the number bond strategies previously learnt |
| TEST 5  | Addition and subtraction, making 15                              |  |
| TEST 6  | Addition and subtraction, making 16                              |  |
| TEST 7  | Addition and subtraction, making 17                              |  |
| TEST 8  | Addition and subtraction, making 18                              | Add/subtract 2 tens then + or – 2                |
| TEST 9  | Addition and subtraction, making 19                              | Add/subtract 2 tens then + or – 1                |
| TEST 10 | Sets of 10   | Multiplication                                   |
| TEST 11 | A mixture of question types from tests 1 to 9, to test progress  |  |
| TEST 12 | A mixture of question types from tests 1 to 10, to test progress |  |

## Tests in Section 2

The tests in this section are designed to help children to develop the ability to add and subtract 'teen' numbers and to have an awareness of how to use place value. It is hoped that these strategies will have been taught previously.

The layout of the tests and the specific focus of each (see contents and the tables below) should help with the diagnosis of particular problems.

### Part A

This section uses pictures as follows. Numerical examples relate to the 'teen' number being tested.

| Question |   |                           |
|----------|---|---------------------------|
| 1        | identifying the number                  |                           |
| 2        | knowing the name of the number          |                           |
| 3        | ability to show the number on an abacus |                           |
| 4        | totalling money                         |                           |
| 5        | making up to 20p                        |                           |
| 6        | shopping language                       | subtraction of 5p and 10p |
| 7        |   | subtraction of 9p         |
| 8        |   | addition of 5p and 10p    |
| 9        | months of the year                      |                           |
| 10       | telling the time to the half hour       |                           |

### Part B

This section uses patterns to help the child to extend knowledge of a single number bond to larger numbers.

| Question |                                       |
|----------|---------------------------------------|
| 1        | developing a strategy for addition    |
| 2        |                                       |
| 3        |                                       |
| 4        |                                       |
| 5        | using the addition strategy           |
| 6        | developing a strategy for subtraction |
| 7        |                                       |
| 8        |                                       |
| 9        |                                       |
| 9        | missing number using –                |
| 10       | missing number using +                |



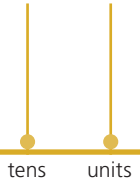









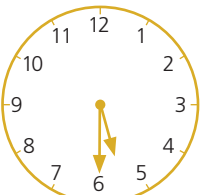
### Part C



This section uses addition and subtraction language and revises making the 'teen' number as well as addition of the 'teen' number. The order is kept the same between tests to make it easy to diagnose consistent mistakes.

| Question |            |
|----------|------------|
| 1        | add        |
| 2        | take       |
| 3        | total      |
| 4        | difference |
| 5        | sum        |
| 6        | more than  |
| 7        | subtract   |
| 8        | minus      |
| 9        | less than  |
| 10       | plus       |

## SECTION 2 | Test 1

Schofield & Sims


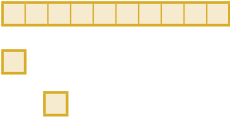
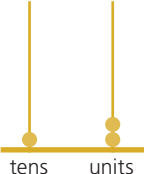








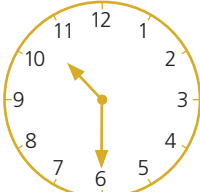
| A  | Answer         |
|--|----------------|
| 1  How many sticks? _____   | 11             |
| 2  Write the number of cubes in words. _____  | eleven         |
| 3 Draw beads on the abacus to show the number eleven.   |                |
| 4 The total value of the money is £11. What is missing? £5       |                |
| 5  How much more do you need to make 20p? _____   | 9p             |
| 6 You have  . You spend  . How much have you got left? _____ | 6p             |
| 7 You have  . You buy  . How much change do you get? _____   | 2p             |
| 8 You have  . You win  . How much do you have now? _____     | 16p            |
| 9 Which month comes after March? _____   | April          |
| 10  What time is it? _____  | half past five |

| B  | Answer |
|--|--------|
| 1 $6 + 10 + 1 =$ _____   | 17     |
| 2 $16 + 10 + 1 =$ _____  | 27     |
| 3 $26 + 10 + 1 =$ _____  | 37     |
| 4 $36 + 11 =$ _____  | 47     |
| 5 $24 + 11 =$ _____  | 35     |
| 6 $17 - 10 - 1 =$ _____  | 6      |
| 7 $27 - 10 - 1 =$ _____  | 16     |
| 8 $37 - 10 - 1 =$ _____  | 26     |
| 9  $- 11 = 46$ _____    | 57     |
| 10  $+ 11 = 45$ _____ | 34     |

| C  | Answer |
|--|--------|
| 1 Add 7 and 11. _____                      | 18     |
| 2 Take 5 from 11. _____                    | 6      |
| 3 The total of 8 and 11 is _____           | 19     |
| 4 The difference between 11 and 6 is _____ | 5      |
| 5 The sum of 11 and 9 is _____             | 20     |
| 6 11 is 7 more than _____                  | 4      |
| 7 Subtract 9 from 11. _____                | 2      |
| 8 11 minus 4 is _____                      | 7      |
| 9 8 less than 11 is _____                  | 3      |
| 10 11 plus 6 is _____                      | 17     |



| A  | Answer        |
|--|---------------|
| 1  How many sticks? _____   | 12            |
| 2  Write the number of cubes in words. _____  | twelve        |
| 3 Draw beads on the abacus to show the number twelve.   |               |
| 4 The total value of the coins is 12p. Which coins are missing? _____  | 2p            |
|   |               |
| 5  How much more do you need to make 20p? _____   | 8p            |
| 6 You have  . You spend  . How much have you got left? _____ | 7p            |
| 7 You have  . You buy  . How much change do you get? _____   | 3p            |
| 8 You have  . You win  . How much do you have now? _____     | 17p           |
| 9 Which month comes before June? _____   | May           |
| 10  What time is it? _____  | half past ten |


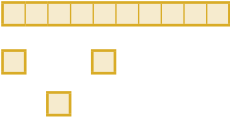
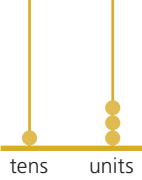








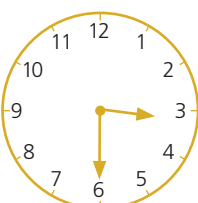
| B                            | Answer |
|------------------------------|--------|
| 1 $5 + 10 + 2 =$ _____       | 17     |
| 2 $15 + 10 + 2 =$ _____      | 27     |
| 3 $25 + 10 + 2 =$ _____      | 37     |
| 4 $35 + 12 =$ _____          | 47     |
| 5 $26 + 12 =$ _____          | 38     |
| 6 $19 - 10 - 2 =$ _____      | 7      |
| 7 $29 - 10 - 2 =$ _____      | 17     |
| 8 $39 - 12 =$ _____          | 27     |
| 9 $\square - 12 = 49$ _____  | 61     |
| 10 $\square + 12 = 47$ _____ | 35     |

| C  | Answer |
|--|--------|
| 1 Add 14 and 12. _____                     | 26     |
| 2 Take 7 from 12. _____                    | 5      |
| 3 The total of 9 and 12 is _____           | 21     |
| 4 The difference between 12 and 8 is _____ | 4      |
| 5 The sum of 12 and 6 is _____             | 18     |
| 6 12 is 4 more than _____                  | 8      |
| 7 Subtract 3 from 12. _____                | 9      |
| 8 12 minus 5 is _____                      | 7      |
| 9 10 less than 12 is _____                 | 2      |
| 10 12 plus 7 is _____                      | 19     |

# SECTION 2 | Test 3


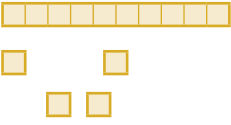
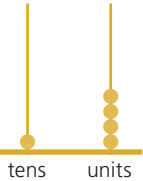








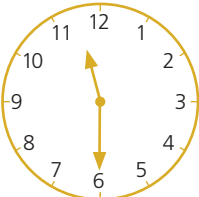
Schofield & Sims

| A  | Answer  |
|--|---|
| 1  How many sticks? _____   | 13  |
| 2  Write the number of cubes in words. _____  | thirteen  |
| 3 Draw the beads on the abacus to show the number thirteen.  |  |
| 4 The total value of the money is £13. What is missing? £1 _____   |   |
|   |   |
| 5 How much more do you need to make 20p? _____   | 8p  |
|   |   |
| 6 You have  . You spend  . How much have you got left? _____   | 8p  |
| 7 You have  . You buy  . How much change do you get? _____     | 4p  |
| 8 You have  . You are given  . How much do you have now? _____ | 18p   |
| 9 Which month comes before January? _____  | December  |
| 10  What time is it? _____  | half past three   |

| B                            | Answer |
|------------------------------|--------|
| 1 $4 + 10 + 3 =$ _____       | 17     |
| 2 $14 + 10 + 3 =$ _____      | 27     |
| 3 $24 + 13 =$ _____          | 37     |
| 4 $34 + 13 =$ _____          | 47     |
| 5 $25 + 13 =$ _____          | 38     |
| 6 $17 - 10 - 3 =$ _____      | 4      |
| 7 $27 - 10 - 3 =$ _____      | 14     |
| 8 $37 - 13 =$ _____          | 24     |
| 9 $\square - 13 = 43$ _____  | 56     |
| 10 $\square + 13 = 47$ _____ | 34     |

| C  | Answer |
|--|--------|
| 1 Add 6 and 13. _____                      | 19     |
| 2 Take 4 from 13. _____                    | 9      |
| 3 The total of 5 and 13 is _____           | 18     |
| 4 The difference between 13 and 8 is _____ | 5      |
| 5 The sum of 13 and 7 is _____             | 20     |
| 6 13 is 7 more than _____                  | 6      |
| 7 Subtract 4 from 13. _____                | 9      |
| 8 13 minus 3 is _____                      | 10     |
| 9 9 less than 13 is _____                  | 4      |
| 10 13 plus 10 is _____                     | 23     |

| A  | Answer           |
|--|------------------|
| 1  How many sticks? _____   | 14               |
| 2  Write the number of cubes in words. _____  | fourteen         |
| 3 Draw beads on the abacus to show the number fourteen.   |                  |
| 4 The total value of the coins is 14p. Which coin is missing?   | 2p               |
| 5 How much more do you need to make 20p?    | 6p               |
| 6 You have  . You lose  . How much have you got left? _____    | 9p               |
| 7 You have  . You buy  . How much change do you get? _____     | 5p               |
| 8 You have  . You are given  . How much do you have now? _____ | 19p              |
| 9 Which month comes after September? _____   | October          |
| 10  What time is it? _____  | half past eleven |

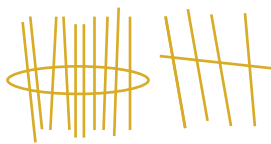
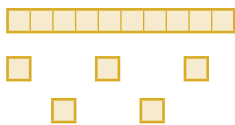
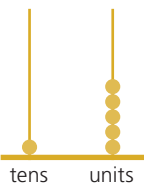








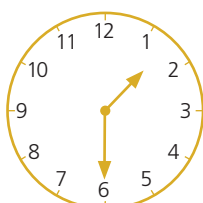
| B                            | Answer |
|------------------------------|--------|
| 1 $6 + 10 + 4 =$ _____       | 20     |
| 2 $16 + 14 =$ _____          | 30     |
| 3 $26 + 14 =$ _____          | 40     |
| 4 $36 + 14 =$ _____          | 50     |
| 5 $56 + 14 =$ _____          | 70     |
| 6 $19 - 10 - 4 =$ _____      | 5      |
| 7 $29 - 10 - 4 =$ _____      | 15     |
| 8 $39 - 14 =$ _____          | 25     |
| 9 $\square - 14 = 45$ _____  | 59     |
| 10 $\square + 14 = 45$ _____ | 31     |

| C  | Answer |
|--|--------|
| 1 Add 5 and 14. _____                      | 19     |
| 2 Take 5 from 14. _____                    | 9      |
| 3 The total of 6 and 14 is _____           | 20     |
| 4 The difference between 14 and 6 is _____ | 8      |
| 5 The sum of 14 and 9 is _____             | 23     |
| 6 14 is 7 more than _____                  | 7      |
| 7 Subtract 9 from 14. _____                | 5      |
| 8 14 minus 4 is _____                      | 10     |
| 9 8 less than 14 is _____                  | 6      |
| 10 14 plus 3 is _____                      | 17     |

## SECTION 2 | Test 5

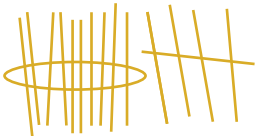
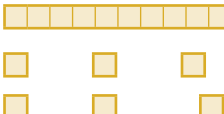
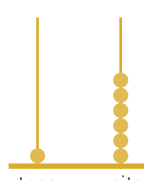






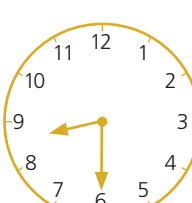
Schofield & Sims

| A   | Answer        |
|---|---------------|
| 1  How many sticks? _____  | 15            |
| 2  Write the number of cubes in words. _____   | fifteen       |
| 3 Draw beads on the abacus to show the number fifteen.   |               |
| 4 The total value of the money is £15. What is missing?  _____   | £10           |
| 5  How much more do you need to make 20p? _____  | 5p            |
| 6 You have  . You lose  .<br>How much have you got left? _____    | 10p           |
| 7 You have  . You buy  .<br>How much change do you get? _____     | 6p            |
| 8 You have  . You are given  .<br>How much do you have now? _____ | 20p           |
| 9 Which month comes after July? _____   | August        |
| 10  What time is it? _____   | half past one |

| B                            | Answer |
|------------------------------|--------|
| 1 $5 + 10 + 5 =$ _____       | 20     |
| 2 $15 + 15 =$ _____          | 30     |
| 3 $25 + 15 =$ _____          | 40     |
| 4 $35 + 15 =$ _____          | 50     |
| 5 $55 + 15 =$ _____          | 70     |
| 6 $15 - 10 - 5 =$ _____      | 0      |
| 7 $25 - 15 =$ _____          | 10     |
| 8 $35 - 15 =$ _____          | 20     |
| 9 $\square - 15 = 45$ _____  | 60     |
| 10 $\square + 15 = 60$ _____ | 45     |

| C  | Answer |
|--|--------|
| 1 Add 10 and 15. _____                     | 25     |
| 2 Take 7 from 15. _____                    | 8      |
| 3 The total of 3 and 15 is _____           | 18     |
| 4 The difference between 15 and 6 is _____ | 9      |
| 5 The sum of 15 and 9 is _____             | 24     |
| 6 15 is 5 more than _____                  | 10     |
| 7 Subtract 9 from 15. _____                | 6      |
| 8 15 minus 8 is _____                      | 7      |
| 9 4 less than 15 is _____                  | 11     |
| 10 15 plus 6 is _____                      | 21     |

| A  | Answer  |
|--|---|
| 1  How many sticks? _____   | 16  |
| 2  Write the number of cubes in words. _____  | sixteen   |
| 3 Draw beads on the abacus to show the number sixteen.   |  |
| 4 The total value of the coins is 16p. Which coin is missing? _____  | 5p  |
| 5 How much more do you need to make 20p? _____   | 4p  |
| 6 You have  . You lose  . How much have you got left? _____    | 11p   |
| 7 You have  . You buy  . How much change do you get? _____     | 7p  |
| 8 You have  . You are given  . How much do you have now? _____ | 21p   |
| 9 Which month comes before October? _____  | September   |
| 10  What time is it? _____  | half past eight   |

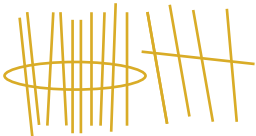
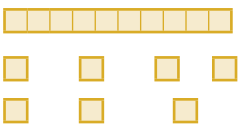







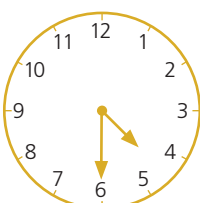
| B                            | Answer |
|------------------------------|--------|
| 1 $2 + 10 + 6 =$ _____       | 18     |
| 2 $12 + 16 =$ _____          | 28     |
| 3 $22 + 16 =$ _____          | 38     |
| 4 $32 + 16 =$ _____          | 48     |
| 5 $52 + 16 =$ _____          | 68     |
| 6 $18 - 10 - 6 =$ _____      | 2      |
| 7 $28 - 16 =$ _____          | 12     |
| 8 $38 - 16 =$ _____          | 22     |
| 9 $\square - 16 = 42$ _____  | 58     |
| 10 $\square + 16 = 68$ _____ | 52     |

| C  | Answer |
|--|--------|
| 1 Add 10 and 16. _____                     | 26     |
| 2 Take 7 from 16. _____                    | 9      |
| 3 The total of 3 and 16 is _____           | 19     |
| 4 The difference between 16 and 6 is _____ | 10     |
| 5 The sum of 16 and 9 is _____             | 25     |
| 6 16 is 5 more than _____                  | 11     |
| 7 Subtract 9 from 16. _____                | 7      |
| 8 16 minus 8 is _____                      | 8      |
| 9 4 less than 16 is _____                  | 12     |
| 10 16 plus 6 is _____                      | 22     |

## SECTION 2 | Test 7

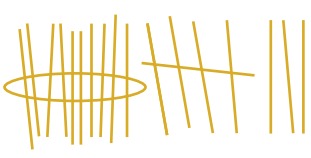
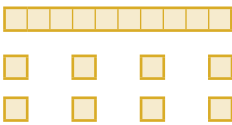
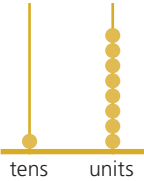






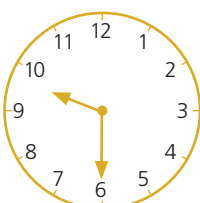
Schofield & Sims

| A  | Answer  |
|--|---|
| 1  How many sticks? _____   | 17  |
| 2  Write the number of cubes in words. _____  | seventeen   |
| 3 Draw beads on the abacus to show the number seventeen.   |  |
| 4 The total value of the coins is 17p. Which coin is missing? _____  | 5p  |
| 5 How much more do you need to make 20p? _____   | 3p  |
| 6 You have  . You lose  . How much have you got left? _____    | 12p   |
| 7 You have  . You buy  . How much change do you get? _____     | 8p  |
| 8 You have  . You are given  . How much do you have now? _____ | 22p   |
| 9 Which month comes before April? _____  | March   |
| 10  What time is it? _____  | half past four  |

| B                            | Answer |
|------------------------------|--------|
| 1 $4 + 10 + 7 =$ _____       | 21     |
| 2 $14 + 17 =$ _____          | 31     |
| 3 $24 + 17 =$ _____          | 41     |
| 4 $34 + 17 =$ _____          | 51     |
| 5 $54 + 17 =$ _____          | 71     |
| 6 $20 - 10 - 7 =$ _____      | 3      |
| 7 $30 - 17 =$ _____          | 13     |
| 8 $40 - 17 =$ _____          | 23     |
| 9 $\square - 17 = 43$ _____  | 60     |
| 10 $\square + 17 = 61$ _____ | 44     |

| C  | Answer |
|--|--------|
| 1 Add 7 and 17. _____                      | 24     |
| 2 Take 5 from 17. _____                    | 12     |
| 3 The total of 10 and 17 is _____          | 27     |
| 4 The difference between 17 and 6 is _____ | 11     |
| 5 The sum of 17 and 9 is _____             | 26     |
| 6 17 is 7 more than _____                  | 10     |
| 7 Subtract 9 from 17. _____                | 8      |
| 8 17 minus 4 is _____                      | 13     |
| 9 8 less than 17 is _____                  | 9      |
| 10 17 plus 6 is _____                      | 23     |

| A  | Answer  |
|--|---|
| 1  How many sticks? _____   | 18  |
| 2  Write the number of cubes in words. _____  | eighteen  |
| 3 Draw beads on the abacus to show the number eighteen.  |  |
| 4 The total value of the coins is 18p. Which coin is missing? _____  | 2p  |
| 5 How much more do you need to make 20p? _____   | 2p  |
| 6 You have  . You spend  . How much have you got left? _____ | 13p   |
| 7 You have  . You buy  . How much change do you get? _____   | 9p  |
| 8 You have  . You win  . How much do you have now? _____     | 23p   |
| 9 Which month comes after November? _____  | December  |
| 10  What time is it? _____  | half past nine  |

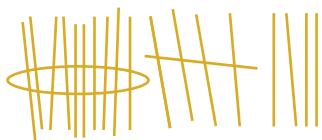
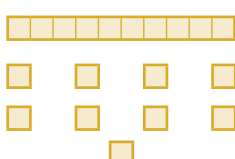
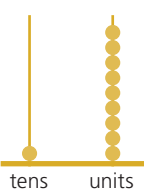






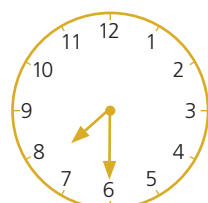
| B                            | Answer |
|------------------------------|--------|
| 1 $4 + 10 + 8 =$ _____       | 22     |
| 2 $4 + 10 + 10 - 2 =$ _____  | 22     |
| 3 $24 + 10 + 8 =$ _____      | 42     |
| 4 $24 + 10 + 10 - 2 =$ _____ | 42     |
| 5 $24 + 18 =$ _____          | 42     |
| 6 $20 - 10 - 8 =$ _____      | 2      |
| 7 $20 - 10 - 10 + 2 =$ _____ | 2      |
| 8 $20 - 18 =$ _____          | 2      |
| 9 $\square - 18 = 42$ _____  | 60     |
| 10 $\square + 18 = 42$ _____ | 24     |

| C  | Answer |
|--|--------|
| 1 Add 10 and 18. _____                     | 28     |
| 2 Take 8 from 18. _____                    | 10     |
| 3 The total of 8 and 18 is _____           | 26     |
| 4 The difference between 18 and 9 is _____ | 9      |
| 5 The sum of 18 and 4 is _____             | 22     |
| 6 18 is 7 more than _____                  | 11     |
| 7 Subtract 6 from 18. _____                | 12     |
| 8 18 minus 5 is _____                      | 13     |
| 9 3 less than 18 is _____                  | 15     |
| 10 18 plus 2 is _____                      | 20     |

## SECTION 2 | Test 9

Schofield & Sims

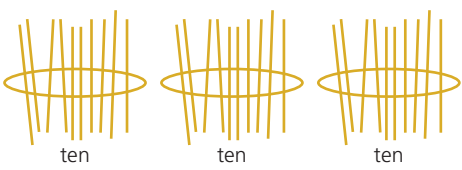

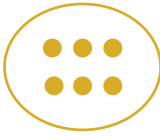
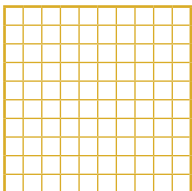




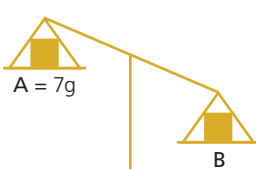
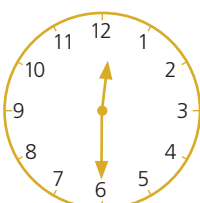
| A  | Answer  |
|--|---|
| 1  How many sticks? _____   | 19  |
| 2  Write the number of cubes in words. _____  | nineteen  |
| 3 Draw beads on the abacus to show the number nineteen.  |  |
| 4 The total value of the coins is 19p. Which coin is missing? _____  | 2p  |
| 5 How much more do you need to make 20p? _____   | 1p  |
| 6 You have  . You spend  . How much have you got left? _____ | 9p  |
| 7 You have  . You buy  . How much change do you get? _____   | 10p   |
| 8 You have  . You win  . How much do you have now? _____     | 29p   |
| 9 Which month comes after May? _____   | June  |
| 10  What time is it? _____  | half past seven   |



| B                            | Answer |
|------------------------------|--------|
| 1 $3 + 10 + 9 =$ _____       | 22     |
| 2 $3 + 10 + 10 - 1 =$ _____  | 22     |
| 3 $23 + 10 + 9 =$ _____      | 42     |
| 4 $23 + 10 + 10 - 1 =$ _____ | 42     |
| 5 $23 + 19 =$ _____          | 42     |
| 6 $40 - 10 - 9 =$ _____      | 21     |
| 7 $40 - 10 - 10 + 1 =$ _____ | 21     |
| 8 $40 - 19 =$ _____          | 21     |
| 9 $\square - 19 = 41$ _____  | 60     |
| 10 $\square + 19 = 41$ _____ | 22     |

| C  | Answer |
|--|--------|
| 1 Add 5 and 19. _____                      | 24     |
| 2 Take 10 from 19. _____                   | 9      |
| 3 The total of 4 and 19 is _____           | 23     |
| 4 The difference between 19 and 6 is _____ | 13     |
| 5 The sum of 19 and 9 is _____             | 28     |
| 6 19 is 8 more than _____                  | 11     |
| 7 Subtract 6 from 19. _____                | 13     |
| 8 19 minus 4 is _____                      | 15     |
| 9 5 less than 19 is _____                  | 14     |
| 10 19 plus 3 is _____                      | 22     |



| A  | Answer |
|--|--------|
| 1 Turn the picture into a sum.  3 sets of 10  |        |
| 2 Turn the picture into a sum.  10 sets of 3  |        |
| 3  $\times 10 =$  | 60     |
| 4  $\div 10 =$   | 10     |
| 5 How much altogether?  40p   |        |
| 6  $\times$  = 70p | 7      |
| 7  $\div 10 =$  | 10p    |
| 8  B is ten times as heavy as A. How heavy is B? 70g  |        |
| 9 Which month comes after December? January  |        |
| 10  What time is it? half past twelve   |        |

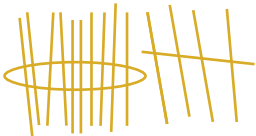
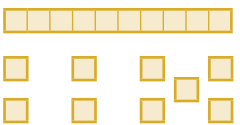







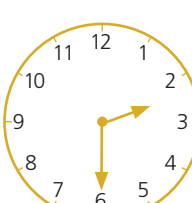
| B   | Answer |
|---|--------|
| 1 10, 20, 30, 40,  | 50     |
| 2 $10 + 10 + 10 =$  | 30     |
| 3 $3 \times 10 =$   | 30     |
| 4 $10 + 10 + 10 + 10 + 10 =$  | 50     |
| 5 $5 \times 10 =$   | 50     |
| 6 90, 80, 70, 60,  | 50     |
| 7 $30 - 10 - 10 - 10 =$   | 0      |
| 8 $30 \div 10 =$  | 3      |
| 9 $70 \div 10 =$  | 7      |
| 10 $90 \div 10 =$   | 9      |



  

| C   | Answer |
|---|--------|
| 1 8 sets of 10 are                                      | 80     |
| 2 How many tens in 70?                                  | 7      |
| 3 4 tens are  | 40     |
| 4 How many 10p coins make 50p?                          | 5      |
| 5 9 times 10 is   | 90     |
| 6 6 multiplied by 10 is                                 | 60     |
| 7 80 shared among 10 is                                 | 8      |
| 8 How many 10p coins have the same value as £1?         | 10     |
| 9 60 divided by 10 is                                   | 6      |
| 10 How many wheels are there altogether on 10 bicycles? | 20     |

## SECTION 2 | Test 11

Schofield & Sims

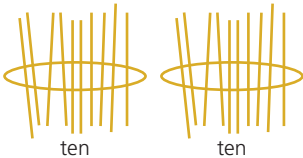
| A  | Answer  |
|--|---|
| 1  How many sticks? _____   | 15  |
| 2  Write the number of cubes in words. _____  | nineteen  |
| 3 Draw beads on the abacus to show the number seventeen.   |  |
| 4 The total value of the coins is 12p. Which coin is missing? _____  | 5p  |
| 5 How much more do you need to make 20p? _____   | 4p  |
| 6 You have  . You lose  . How much have you got left? _____    | 4p  |
| 7 You have  . You buy  . How much change do you get? _____     | 11p   |
| 8 You have  . You are given  . How much do you have now? _____ | 21p   |
| 9 Which month comes after August? _____  | September   |
| 10  What time is it? _____  | half past two   |

| B  | Answer |
|--|--------|
| 1 $3 + 10 + 5 =$ _____   | 18     |
| 2 $23 + 15 =$ _____  | 38     |
| 3 $7 + 10 + 7 =$ _____   | 24     |
| 4 $47 + 17 =$ _____  | 64     |
| 5 $16 - 10 - 3 =$ _____  | 3      |
| 6 $56 - 13 =$ _____  | 43     |
| 7 $21 - 10 - 6 =$ _____  | 5      |
| 8 $31 - 16 =$ _____  | 15     |
| 9  $- 19 = 4$ _____     | 23     |
| 10  $+ 19 = 24$ _____ | 5      |

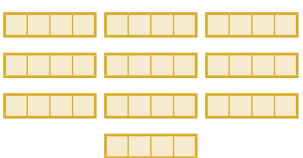
  

| C  | Answer |
|--|--------|
| 1 Add 9 and 14. _____                      | 23     |
| 2 Take 4 from 19. _____                    | 15     |
| 3 The total of 12 and 3 is _____           | 15     |
| 4 The difference between 18 and 7 is _____ | 11     |
| 5 The sum of 11 and 2 is _____             | 13     |
| 6 17 is 8 more than _____                  | 9      |
| 7 Subtract 4 from 13. _____                | 9      |
| 8 19 minus 6 is _____                      | 13     |
| 9 5 less than 10 is _____                  | 5      |
| 10 15 plus 5 is _____                      | 20     |


**A** **Answer**

1  Turn the picture into a sum. 2 sets of 10


2 Write the number of cubes in words. forty




3 Draw beads on the abacus to show the number fourteen.





4 The total value of the notes is £60. Which note is missing? £10

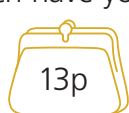



5 How much more do you need to make 20p? 6p





6 You have . You spend .

How much have you got left? 9p


7 You have . You buy .

How much change do you get? 5p

8 You have . You win .

How much do you have now? 22p

9 Which month comes after February? March

10  What time is it? half past six

**B** **Answer**

1  $4 + 10 + 4 =$  18

2  $44 + 14 =$  58

3  $10 + 10 + 10 + 10 =$  40

4  $4 \times 10 =$  40

5  $22 - 10 - 7 =$  5

6  $32 - 17 =$  15

7  $40 - 10 - 10 - 10 - 10 =$  0

8  $40 \div 10 =$  4

9  $\square - 18 = 6$  24

10  $\square + 18 = 26$  8

**C** **Answer**

1 5 sets of 10 are 50

2 How many tens in 60? 6

3 The total of 5 and 16 is 21

4 The difference between 13 and 7 is 6

5 8 times 10 is 80

6 11 is 8 more than 3

7 Subtract 9 from 14. 5

8 40 divided by 10 is 4

9 3 less than 18 is 15

10 50 shared by 10 is 5

| Name of child<br><br>_____ |        | Diagnostic Chart for Section 2<br>Indicate where child has difficulty |   |   |   |   |   |   |   |   |    |
|----------------------------|--------|---|---|---|---|---|---|---|---|---|----|
|                            |        | 1   | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Test 1                     | Part A |   |   |   |   |   |   |   |   |   |    |
|                            | Part B |   |   |   |   |   |   |   |   |   |    |
|                            | Part C |   |   |   |   |   |   |   |   |   |    |
| Test 2                     | Part A |   |   |   |   |   |   |   |   |   |    |
|                            | Part B |   |   |   |   |   |   |   |   |   |    |
|                            | Part C |   |   |   |   |   |   |   |   |   |    |
| Test 3                     | Part A |   |   |   |   |   |   |   |   |   |    |
|                            | Part B |   |   |   |   |   |   |   |   |   |    |
|                            | Part C |   |   |   |   |   |   |   |   |   |    |
| Test 4                     | Part A |   |   |   |   |   |   |   |   |   |    |
|                            | Part B |   |   |   |   |   |   |   |   |   |    |
|                            | Part C |   |   |   |   |   |   |   |   |   |    |
| Test 5                     | Part A |   |   |   |   |   |   |   |   |   |    |
|                            | Part B |   |   |   |   |   |   |   |   |   |    |
|                            | Part C |   |   |   |   |   |   |   |   |   |    |
| Test 6                     | Part A |   |   |   |   |   |   |   |   |   |    |
|                            | Part B |   |   |   |   |   |   |   |   |   |    |
|                            | Part C |   |   |   |   |   |   |   |   |   |    |
| Test 7                     | Part A |   |   |   |   |   |   |   |   |   |    |
|                            | Part B |   |   |   |   |   |   |   |   |   |    |
|                            | Part C |   |   |   |   |   |   |   |   |   |    |
| Test 8                     | Part A |   |   |   |   |   |   |   |   |   |    |
|                            | Part B |   |   |   |   |   |   |   |   |   |    |
|                            | Part C |   |   |   |   |   |   |   |   |   |    |
| Test 9                     | Part A |   |   |   |   |   |   |   |   |   |    |
|                            | Part B |   |   |   |   |   |   |   |   |   |    |
|                            | Part C |   |   |   |   |   |   |   |   |   |    |
| Test 10                    | Part A |   |   |   |   |   |   |   |   |   |    |
|                            | Part B |   |   |   |   |   |   |   |   |   |    |
|                            | Part C |   |   |   |   |   |   |   |   |   |    |
| Test 11                    | Part A |   |   |   |   |   |   |   |   |   |    |
|                            | Part B |   |   |   |   |   |   |   |   |   |    |
|                            | Part C |   |   |   |   |   |   |   |   |   |    |
| Test 12                    | Part A |   |   |   |   |   |   |   |   |   |    |
|                            | Part B |   |   |   |   |   |   |   |   |   |    |
|                            | Part C |   |   |   |   |   |   |   |   |   |    |

These tests enable children to use mental methods to add and subtract multiples of 10.

The tests in Section 3 cover the following topics.

|         |  |  |
|---------|--|--|
| TEST 1  | Addition and subtraction of 20   | Regard the number as so many sets of 10 and then use single-digit strategies within the tens digits.<br><br><b>Part C</b> uses language of both measures and number. |
| TEST 2  | Addition and subtraction of 30   |  |
| TEST 3  | Addition and subtraction of 40   |  |
| TEST 4  | Addition and subtraction of 50   |  |
| TEST 5  | Addition and subtraction of 60   |  |
| TEST 6  | Addition and subtraction of 70   |  |
| TEST 7  | Addition and subtraction of 80   |  |
| TEST 8  | Addition and subtraction of 90   |  |
| TEST 9  | Addition and subtraction of 100  |  |
| TEST 10 | Sets of 5  | Multiplication   |
| TEST 11 | A mixture of question types from tests 1 to 9, to test progress  |  |
| TEST 12 | A mixture of question types from tests 1 to 10, to test progress<br><br><b>Part C</b> of this test is more complicated than the others as it puts together the language learnt, the units used and a possible problem situation. |  |

### Tests in Section 3

The tests in this section are designed to help children to develop the ability to add and subtract tens and to extend the awareness of place value. It is hoped that these strategies will have been taught previously.

The layout of the tests and the specific focus of each (see contents and the tables below) should help with the diagnosis of particular problems.

#### Part A

This section uses pictures as follows. Numerical questions relate to the 'ten' number being practised.

| Question |  |
|----------|--|
| 1        | identifying the number (words)             |
| 2        | showing the number on an HTU abacus        |
| 3        | identifying an abacus number with hundreds |
| 4        | making money (from tens number) to £1      |
| 5        | make number with 10p coins (sets of 10)    |
| 6        | make number with 5p coins (sets of 5)      |
| 7        | make number with 2p coins (sets of 2)      |
| 8        | using 'difference' language with measures  |
| 9        | finding a number on a number line          |
| 10       | telling the time to the quarter hour       |

#### Part B

This section uses patterns to develop a mental strategy for multiples of ten and extend this to larger numbers.

| Question |   |
|----------|---|
| 1        | developing a strategy for addition                  |
| 2        |   |
| 3        |   |
| 4        | extending the strategy to larger numbers            |
| 5        | using addition strategies to complete a sequence    |
| 6        | developing a strategy for subtraction               |
| 7        |   |
| 8        |   |
| 9        | extending the strategy to larger numbers            |
| 10       | using subtraction strategies to complete a sequence |

#### Part C

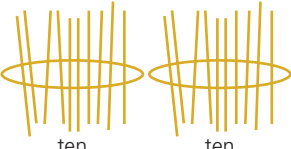
This section uses addition and subtraction language, units of measurement language and measures with multiples of 10. The order is kept the same between tests to make it easy to diagnose consistent mistakes.


| Question |            |
|----------|------------|
| 1        | add        |
| 2        | take       |
| 3        | total      |
| 4        | difference |
| 5        | sum        |
| 6        | more than  |
| 7        | subtract   |
| 8        | minus      |
| 9        | less than  |
| 10       | plus       |


# SECTION 3 | Test 1


Schofield & Sims

## A Answer

1  Write the number of sticks in words. twenty

2 Draw beads on the abacus to show the number twenty. 

3  Write the number shown on the abacus. 21

4  How much more do you need to make £1? 80p

5 How many  make  ? 2

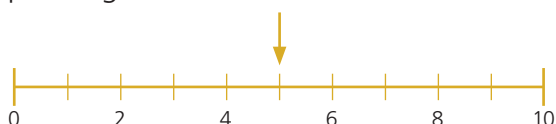
6 How many  make  ? 4

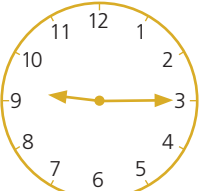
7 How many  make  ? 10

8 What is the difference between A and B? 8cm

A  20cm  
B  12cm

9 What number is the arrow pointing to? 5



10  What time is it? quarter past nine

## B Answer

1  $7 + 10 + 10 =$  27

2  $17 + 2 \text{ tens} =$  37

3  $27 + 20 =$  47

4  $37 + 20 =$  57

5 17, 37, 57, 77,  97

6  $24 - 10 - 10 =$  4

7  $24 - 2 \text{ tens} =$  4

8  $34 - 20 =$  14

9  $44 - 20 =$  24

10 84, 64, 44, , 4 24

## C Answer

1 Add 7p and 20p. 27p

2 Take 5p from 20p. 15p

3 The total cost of 20p and 9p is 29p

4 The difference in price between 7p and 20p is 13p

5 The sum of 6p and 20p is 26p

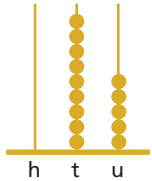






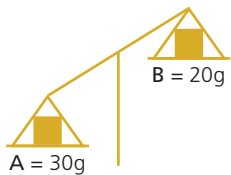
6 20p is 8p more than 12p



7 If you spend 10p, your change from 20p is 10p

8 If you have 20p and you lose 4p, you will be left with 16p

9 3p less than 20p is 17p

10 12p plus 20p is 32p

| A   | Answer                  |
|---|-------------------------|
| 1 Write the number of sticks in words.   | <u>thirty</u>           |
| 2 Draw beads on the abacus to show the number thirty.    |                         |
| 3  Write the number shown on the abacus.   | <u>95</u>               |
| 4  How much more do you need to make £1?   | <u>70p</u>              |
| 5 How many  make  . | <u>3</u>                |
| 6 How many  make  . | <u>6</u>                |
| 7 How many  make  . | <u>15</u>               |
| 8  What is the difference in mass between A and B?   | <u>10g</u>              |
| 9 What number is the arrow pointing to?    | <u>7</u>                |
| 10  What time is it?   | <u>quarter to eight</u> |

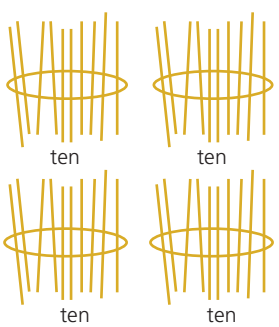
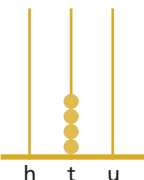
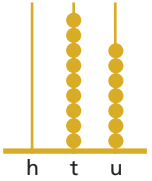









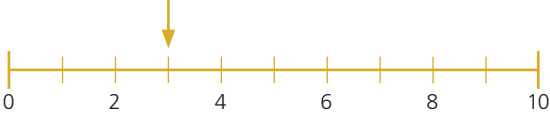
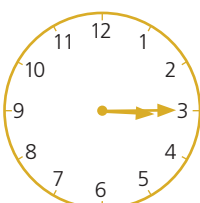
| B   | Answer    |
|---|-----------|
| 1 $6 + 10 + 10 + 10 =$  | <u>36</u> |
| 2 $16 + 3 \text{ tens} =$   | <u>46</u> |
| 3 $26 + 30 =$   | <u>56</u> |
| 4 $36 + 30 =$   | <u>66</u> |
| 5 6, 36, 66,  , 126    | <u>96</u> |
| 6 $32 - 10 - 10 - 10 =$   | <u>2</u>  |
| 7 $42 - 3 \text{ tens} =$   | <u>12</u> |
| 8 $52 - 30 =$   | <u>22</u> |
| 9 $62 - 30 =$   | <u>32</u> |
| 10 122, 92, 62, 32,  | <u>2</u>  |



  

| C  | Answer      |
|--|-------------|
| 1 Add 7cm and 30cm.                      | <u>37cm</u> |
| 2 Take 5cm from 30cm.                    | <u>25cm</u> |
| 3 The total length of 30cm and 19cm is   | <u>49cm</u> |
| 4 The difference between 7cm and 30cm is | <u>23cm</u> |
| 5 The sum of 16cm and 30cm is            | <u>46cm</u> |
| 6 30cm is 8cm longer than                | <u>22cm</u> |
| 7 Subtract 11cm from 30cm.               | <u>19cm</u> |
| 8 30cm minus 14cm is                     | <u>16cm</u> |
| 9 13cm shorter than 30cm is              | <u>17cm</u> |
| 10 20cm plus 30cm is                     | <u>50cm</u> |

# SECTION 3 | Test 3

Schofield & Sims

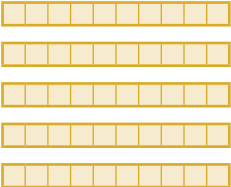
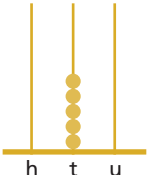
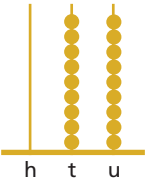







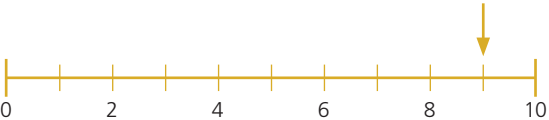
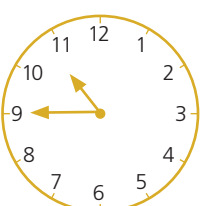
| A   | Answer |
|---|--------|
| <p>1  Write the number of sticks in words. <span style="float: right;">forty</span></p>  |        |
| <p>2 Draw beads on the abacus to show the number forty.</p> <div style="text-align: center;">  </div>  |        |
| <p>3  Write the number shown on the abacus. <span style="float: right;">97</span></p>  |        |
| <p>4  How much more do you need to make £1? <span style="float: right;">60p</span></p>  |        |
| <p>5 How many  make ? <span style="float: right;">4</span></p>  |        |
| <p>6 How many  make ? <span style="float: right;">8</span></p>  |        |
| <p>7 How many  make ? <span style="float: right;">20</span></p>   |        |
| <p>8 What is the difference between   and ? <span style="float: right;">30p</span></p> |        |
| <p>9 What number is the arrow pointing to?</p> <div style="text-align: center;">  </div>   |        |
| <p>10  What time is it? <span style="float: right;">quarter past three</span></p>  |        |

| B  | Answer                                |
|--|---------------------------------------|
| 1 $5 + 10 + 10 + 10 + 10 =$  | <span style="float: right;">45</span> |
| 2 $15 + 4 \text{ tens} =$  | <span style="float: right;">55</span> |
| 3 $25 + 40 =$  | <span style="float: right;">65</span> |
| 4 $35 + 40 =$  | <span style="float: right;">75</span> |
| 5 5, 25, 45, 65,      | <span style="float: right;">85</span> |
| 6 $41 - 10 - 10 - 10 - 10 =$   | <span style="float: right;">1</span>  |
| 7 $51 - 4 \text{ tens} =$  | <span style="float: right;">11</span> |
| 8 $61 - 40 =$  | <span style="float: right;">21</span> |
| 9 $71 - 40 =$  | <span style="float: right;">31</span> |
| 10 101, 81, 61, 41,  | <span style="float: right;">21</span> |

| C   | Answer                                  |
|---|---|
| 1 Add 7kg and 40kg.                       | <span style="float: right;">47kg</span> |
| 2 Take 5kg from 40kg.                     | <span style="float: right;">35kg</span> |
| 3 The total mass of 40kg and 20kg is      | <span style="float: right;">60kg</span> |
| 4 The difference between 30kg and 40kg is | <span style="float: right;">10kg</span> |
| 5 The sum of 16kg and 40kg is             | <span style="float: right;">56kg</span> |
| 6 40kg is 8kg heavier than                | <span style="float: right;">32kg</span> |
| 7 Subtract 11kg from 40kg.                | <span style="float: right;">29kg</span> |
| 8 40kg minus 4kg is                       | <span style="float: right;">36kg</span> |
| 9 10kg lighter than 40kg is               | <span style="float: right;">30kg</span> |
| 10 12kg plus 40kg is                      | <span style="float: right;">52kg</span> |



| A   | Answer  |
|---|---|
| 1  Write the number of cubes in words. _____   | fifty   |
| 2 Draw beads on the abacus to show the number fifty.  |  |
| 3  Write the number shown on the abacus. _____   | 99  |
| 4  How much more do you need to make £1? _____   | 50p   |
| 5 How many  make  ? _____   | 5   |
| 6 How many  make  ? _____ | 10  |
| 7 How many  make  ? _____ | 25  |
| 8 What is the difference between A and B?<br>A _____ 100m<br>B _____ 50m  | 50m   |
| 9 What number is the arrow pointing to?<br>  | 9   |
| 10  What time is it? _____   | quarter to eleven   |

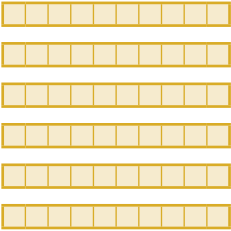
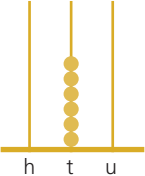
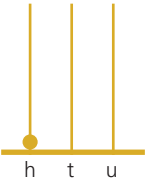







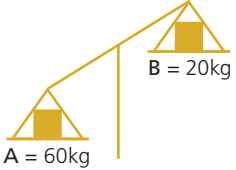
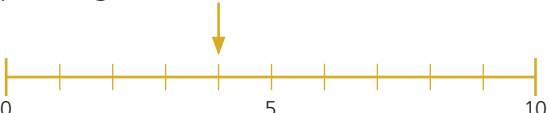
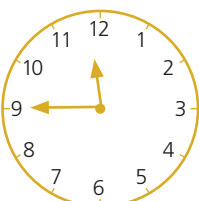
| B                               | Answer |
|---------------------------------|--------|
| 1 $5 + 5 \text{ tens} =$ _____  | 55     |
| 2 $15 + 5 \text{ tens} =$ _____ | 65     |
| 3 $25 + 50 =$ _____             | 75     |
| 4 $35 + 50 =$ _____             | 85     |
| 5 1, 21, 41, 61, _____          | 81     |
| 6 $59 - 5 \text{ tens} =$ _____ | 9      |
| 7 $69 - 5 \text{ tens} =$ _____ | 19     |
| 8 $79 - 50 =$ _____             | 29     |
| 9 $89 - 50 =$ _____             | 39     |
| 10 85, 75, 65, 55, _____        | 45     |



  

| C  | Answer |
|--|--------|
| 1 Add £30 and £50. _____                                     | £80    |
| 2 Take £5 from £50. _____                                    | £45    |
| 3 The total value of £50 and £40 is _____                    | £90    |
| 4 The difference between £20 and £50 is _____                | £30    |
| 5 The sum of £16 and £50 is _____                            | £66    |
| 6 £50 is £8 more than _____                                  | £42    |
| 7 If you spend £15, what is your change from £50? _____      | £35    |
| 8 £50 minus £40 is _____                                     | £10    |
| 9 You have £50. You spend £10. How much have you left? _____ | £40    |
| 10 £19 plus £50 is _____                                     | £69    |

# SECTION 3 | Test 5

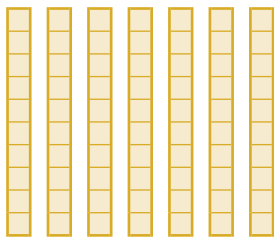
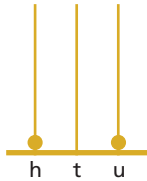





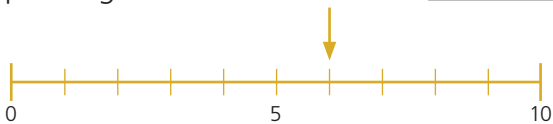
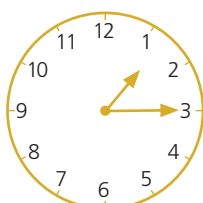
Schofield & Sims



| A   | Answer            |
|---|-------------------|
| 1  Write the number of cubes in words. _____   | sixty             |
| 2 Draw beads on the abacus to show the number sixty.   |                   |
| 3  Write the number shown on the abacus. _____   | 100               |
| 4  How much more do you need to make £1? _____   | 40p               |
| 5 How many  make  ? _____ | 6                 |
| 6 How many  make  ? _____ | 12                |
| 7 How many  make  ? _____ | 30                |
| 8  What is the difference in mass between A and B? _____   | 40kg              |
| 9 What number is the arrow pointing to?    | 4                 |
| 10  What time is it? _____   | quarter to twelve |

| B   | Answer |
|---|--------|
| 1 $8 + 6 \text{ tens} =$ _____  | 68     |
| 2 $18 + 6 \text{ tens} =$ _____   | 78     |
| 3 $28 + 60 =$ _____   | 88     |
| 4 $38 + 60 =$ _____   | 98     |
| 5 8, 28, 48, 68,  _____      | 88     |
| 6 $60 - 6 \text{ tens} =$ _____   | 0      |
| 7 $70 - 6 \text{ tens} =$ _____   | 10     |
| 8 $80 - 60 =$ _____   | 20     |
| 9 $90 - 60 =$ _____   | 30     |
| 10 100, 80, 60, 40,  _____ | 20     |

| C   | Answer |
|---|--------|
| 1 Add 40g and 60g. _____                      | 100g   |
| 2 Take 50g from 60g. _____                    | 10g    |
| 3 The total value of 60g and 20g is _____     | 80g    |
| 4 The difference between 30g and 60g is _____ | 30g    |
| 5 The sum of 18g and 60g is _____             | 78g    |
| 6 60g is 8g heavier than _____                | 52g    |
| 7 Subtract 11g from 60g. _____                | 49g    |
| 8 60g minus 40g is _____                      | 20g    |
| 9 20g lighter than 60g is _____               | 40g    |
| 10 30g plus 60g is _____                      | 90g    |

| A   | Answer |
|---|--------|
| 1  Write the number of cubes in words. <u>seventy</u>  |        |
| 2 Draw beads on the abacus to show the number seventy.   |        |
| 3  Write the number shown on the abacus. <u>101</u>  |        |
| 4  How much more do you need to make £1? <u>30p</u>  |        |
| 5 How many  make  ? <u>7</u>                        |        |
| 6 How many  make  ? <u>14</u>                       |        |
| 7 How many  make  ? <u>35</u>                       |        |
| 8 What is the difference between  and  ? <u>40p</u> |        |
| 9 What number is the arrow pointing to?  <u>6</u>  |        |
| 10  What time is it? <u>quarter past one</u>   |        |

| B   | Answer |
|---|--------|
| 1 $10 + 7 \text{ tens} =$ <u>80</u>   |        |
| 2 $20 + 7 \text{ tens} =$ <u>90</u>   |        |
| 3 $30 + 70 =$ <u>100</u>  |        |
| 4 $40 + 70 =$ <u>110</u>  |        |
| 5 10, 30, 50, 70,  <u>90</u>     |        |
| 6 $80 - 7 \text{ tens} =$ <u>10</u>   |        |
| 7 $90 - 7 \text{ tens} =$ <u>20</u>   |        |
| 8 $100 - 70 =$ <u>30</u>  |        |
| 9 $110 - 70 =$ <u>40</u>  |        |
| 10 100, 90, 80, 70,  <u>60</u> |        |

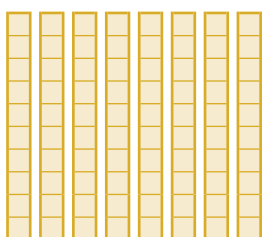
  

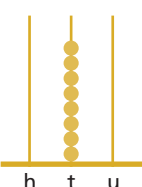
| C   | Answer |
|---|--------|
| 1 Add 30m and 70m. <u>100m</u>                    |        |
| 2 Take 40m from 70m. <u>30m</u>                   |        |
| 3 The total length of 70m and 20m is <u>90m</u>   |        |
| 4 The difference between 7m and 70m is <u>63m</u> |        |
| 5 The sum of 16m and 70m is <u>86m</u>            |        |
| 6 70m is 20m longer than <u>50m</u>               |        |
| 7 Subtract 50m from 70m. <u>20m</u>               |        |
| 8 70m minus 60m is <u>10m</u>                     |        |
| 9 8m shorter than 70m is <u>62m</u>               |        |
| 10 19m plus 70m is <u>89m</u>                     |        |


# SECTION 3 | Test 7


Schofield & Sims

## A Answer

1  Write the number of cubes in words. eighty

2 Draw beads on the abacus to show the number eighty. 

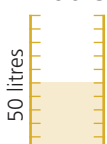
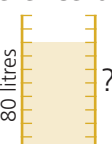
3  Write the number shown on the abacus. 104

4  How much more do you need to make £1? 20p

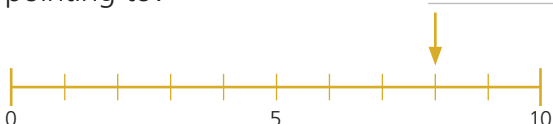
5 How many  make 8

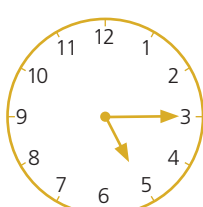
6 How many  make 16

7 How many  make 40



8 What is the difference between  and ? 30 litres

9 What number is the arrow pointing to? 8



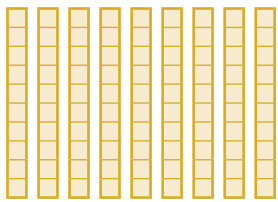
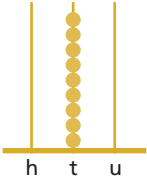
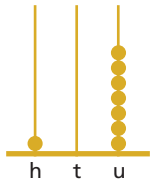







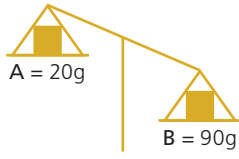
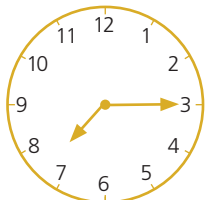
10  What time is it? quarter past five

## B Answer

- 1  $10 + 8 \text{ tens} =$  90
- 2  $20 + 8 \text{ tens} =$  100
- 3  $30 + 80 =$  110
- 4  $40 + 80 =$  120
- 5 0, 30, 60, 90,  120
- 6  $80 - 8 \text{ tens} =$  0
- 7  $90 - 8 \text{ tens} =$  10
- 8  $100 - 80 =$  20
- 9  $110 - 80 =$  30
- 10 101, 91, 81, 71,  61

## C Answer

- 1 Add 19m and 80m. 99m
- 2 Take 60m from 80m. 20m
- 3 The total length of 80m and 15m is 95m
- 4 The difference between 70m and 80m is 10m
- 5 The sum of 6m and 80m is 86m
- 6 80m is 30m longer than 50m
- 7 Subtract 20m from 80m. 60m
- 8 80m minus 40m is 40m
- 9 30m shorter than 80m is 50m
- 10 8m plus 80m is 88m

| A   | Answer  |
|---|---|
| 1  Write the number of cubes in words. _____   | <u>ninety</u>   |
| 2 Draw beads on the abacus to show the number ninety.   |  |
| 3  Write the number shown on the abacus. _____   | <u>107</u>  |
| 4  How much more do you need to make £1? _____   | <u>10p</u>  |
| 5 How many  make  ? _____   | <u>9</u>  |
| 6 How many  make  ? _____ | <u>18</u>   |
| 7 How many  make  ? _____ | <u>45</u>   |
| 8  What is the difference in mass between A and B? _____   | <u>70g</u>  |
| 9 What number is the arrow pointing to? _____   | <u>3</u>  |
| 10  What time is it? _____   | <u>quarter past seven</u>   |

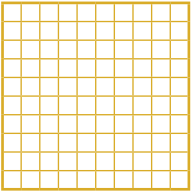
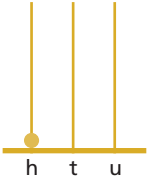
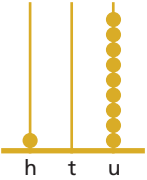







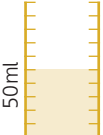
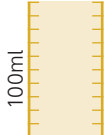

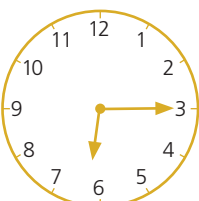
| B  | Answer     |
|--|------------|
| 1 $10 + 9 \text{ tens} =$ _____          | <u>100</u> |
| 2 $20 + 9 \text{ tens} =$ _____          | <u>110</u> |
| 3 $30 + 90 =$ _____                      | <u>120</u> |
| 4 $40 + 90 =$ _____                      | <u>130</u> |
| 5 $0, 25, 50, 75, \blacksquare$ _____    | <u>100</u> |
| 6 $100 - 9 \text{ tens} =$ _____         | <u>10</u>  |
| 7 $110 - 9 \text{ tens} =$ _____         | <u>20</u>  |
| 8 $120 - 90 =$ _____                     | <u>30</u>  |
| 9 $130 - 90 =$ _____                     | <u>40</u>  |
| 10 $105, 85, 65, 45, \blacksquare$ _____ | <u>25</u>  |



  

| C   | Answer        |
|---|---------------|
| 1 Add 9min and 90min. _____   | <u>99min</u>  |
| 2 Take 50min from 90min. _____  | <u>40min</u>  |
| 3 The total time taken for two TV programmes lasting 90min and 20min is _____ | <u>110min</u> |
| 4 The difference between 60min and 90min is _____                             | <u>30min</u>  |
| 5 The sum of 6min and 90min is _____  | <u>96min</u>  |
| 6 90min is 5min longer than _____   | <u>85min</u>  |
| 7 Subtract 15min from 90min. _____  | <u>75min</u>  |
| 8 90min minus 40min is _____  | <u>50min</u>  |
| 9 30min less than 90min is _____  | <u>60min</u>  |
| 10 8min plus 90min is _____   | <u>98min</u>  |

# SECTION 3 | Test 9

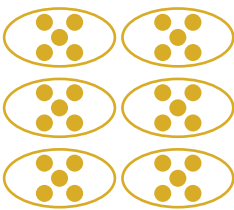

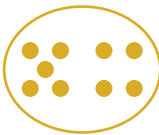




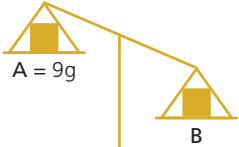

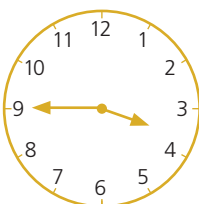
Schofield & Sims



| A  | Answer  |
|--|---|
| 1  Write the number of cubes in words. <u>one hundred</u>   |   |
| 2 Draw beads on the abacus to show the number one hundred.   |  |
| 3  Write the number shown on the abacus. <u>109</u>   |   |
| 4  How much more do you need to make £1? <u>45p</u>   |   |
| 5 How many  make  ? <u>10</u>                          |   |
| 6 How many  make  ? <u>20</u>                        |   |
| 7 How many  make  ? <u>50</u>                        |   |
| 8 What is the difference between  and  ? <u>50ml</u> |   |
| 9 What number is the arrow pointing to? <u>1</u>   |   |
|   |   |
| 10  What time is it? <u>quarter past six</u>  |   |

| B  | Answer |
|--|--------|
| 1 $10 + 10$ tens = <u>110</u>  |        |
| 2 $20 + 1$ hundred = <u>120</u>  |        |
| 3 $30 + 100$ = <u>130</u>  |        |
| 4 $40 + 100$ = <u>140</u>  |        |
| 5 0, 100, 200, 300,  <u>400</u>     |        |
| 6 $100 - 10$ tens = <u>0</u>   |        |
| 7 $110 - 1$ hundred = <u>10</u>  |        |
| 8 $120 - 100$ = <u>20</u>  |        |
| 9 $130 - 100$ = <u>30</u>  |        |
| 10 900, 800, 700, 600,  <u>500</u> |        |

| C  | Answer |
|--|--------|
| 1 Add 7 tens and 10 tens. <u>170</u>                     |        |
| 2 Take 5 tens from 10 tens. <u>50</u>                    |        |
| 3 The total of 10 tens and 9 tens is <u>190</u>          |        |
| 4 The difference between 7 tens and 10 tens is <u>30</u> |        |
| 5 The sum of 6 tens and 10 tens is <u>160</u>            |        |
| 6 10 tens are 8 tens more than <u>20</u>                 |        |
| 7 Subtract 1 ten from 10 tens. <u>90</u>                 |        |
| 8 10 tens minus 4 tens is <u>60</u>                      |        |
| 9 3 tens fewer than 10 tens is <u>70</u>                 |        |
| 10 2 tens plus 10 tens is <u>120</u>                     |        |

| A   | Answer |
|---|--------|
| 1  Turn the picture into a sum. <u>6</u> sets of <u>5</u>      |        |
| 2  Turn the picture into a sum. <u>5</u> sets of <u>6</u>      |        |
| 3  $\times 5 =$ <u>45</u>                                      |        |
| 4  $\div 5 =$ <u>3</u>   |        |
| 5 How much altogether? <u>25p</u><br>                        |        |
| 6  $\times$ <u>8</u> = 40p                                   |        |
| 7  $\div 5 =$ <u>4p</u>                                      |        |
| 8  B is five times as heavy as A. How heavy is B? <u>45g</u> |        |
| 9 What number is the arrow pointing to? <u>2</u><br>         |        |
| 10  What time is it? <u>quarter to four</u>                  |        |

| B   | Answer |
|---|--------|
| 1 5, 10, 15, 20,  <u>25</u>  |        |
| 2 $5 + 5 + 5 + 5 =$ <u>20</u>   |        |
| 3 $4 \times 5 =$ <u>20</u>  |        |
| 4 $5 + 5 + 5 + 5 + 5 + 5 =$ <u>30</u>   |        |
| 5 $6 \times 5 =$ <u>30</u>  |        |
| 6 50, 45, 40, 35,  <u>30</u> |        |
| 7 $15 - 5 - 5 - 5 =$ <u>0</u>   |        |
| 8 $15 \div 5 =$ <u>3</u>  |        |
| 9 $35 \div 5 =$ <u>7</u>  |        |
| 10 $40 \div 5 =$ <u>8</u>   |        |

| C  | Answer |
|--|--------|
| 1 8 sets of 5 are <u>40</u>                                    |        |
| 2 How many fives in 30? <u>6</u>                               |        |
| 3 9 fives are <u>45</u>  |        |
| 4 How many 5p coins make 50p? <u>10</u>                        |        |
| 5 7 times 5 is <u>35</u>                                       |        |
| 6 6 multiplied by 5 is <u>30</u>                               |        |
| 7 40 shared among 5 is <u>8</u>                                |        |
| 8 If I change 20p into 5p coins, how many will I get? <u>4</u> |        |
| 9 45 divided by 5 is <u>9</u>                                  |        |
| 10 How many toes are there on 10 feet? <u>50</u>               |        |

# SECTION 3 | Test 11

Schofield & Sims

## A Answer

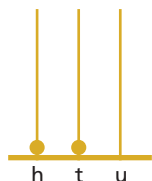
1 Write the number of cubes in words. thirty



2 Draw beads on the abacus to show the number sixty-four.



3 Write the number shown on the abacus. 110



4 How much more do you need to make £1? 30p



5 How many 10p make 20p 20p 20p 20p? 8

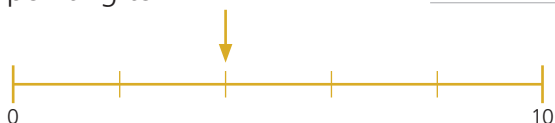
6 How many 5p make 10p 10p? 4

7 How many 2p make 10p 10p 20p? 20

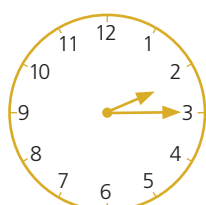
8 What is the difference between £1 and 50p? 50p



9 What number is the arrow pointing to? 4



10 What time is it? quarter past two



## B Answer

1  $5 + 5$  tens = 55

2  $35 + 50 =$  85

3  $3 + 7$  tens = 73

4  $23 + 70 =$  93

5 3, 23, 43, 63, 83

6  $78 - 3$  tens = 48

7  $98 - 30 =$  68

8  $90 - 4$  tens = 50

9  $60 - 40 =$  20

10 87, 77, 67, 57, 47

## C Answer

1 Add 50cm and 60cm. 110cm

2 Take 70 litres from 80 litres. 10 litres

3 The total mass of four boxes each weighing 10kg is 40kg

4 The difference in value between 80p and 30p is 50p

5 The sum of 100g and 90g is 190g

6 100 is 5 tens more than 50

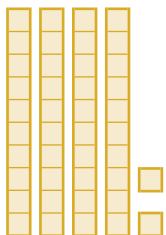
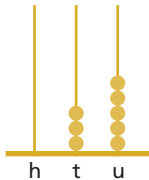
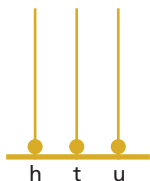









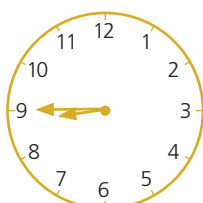
7 Subtract 30ml from 40ml. 10ml

8 80min minus 50min is 30min

9 70m is 10m shorter than 80m

10 £60 plus £20 is £80



| A   | Answer          |
|---|-----------------|
| 1  Write the number of cubes in words. _____   | forty-two       |
| 2 Draw beads on the abacus to show the number thirty-five.   |                 |
| 3  Write the number shown on the abacus. _____   | 111             |
| 4  How much more do you need to make £1? _____   | 75p             |
| 5 How many  make  ? _____   | 7               |
| 6 How many  make  ? _____ | 5               |
| 7 How many  make  ? _____ | 25              |
| 8 What is the difference in width between A and B?   | 50cm            |
| 9 What number is the arrow pointing to?    | 8               |
| 10  What time is it? _____   | quarter to nine |

| B                         | Answer |
|---------------------------|--------|
| 1 $4 + 8$ tens = _____    | 84     |
| 2 $24 + 80 =$ _____       | 104    |
| 3 $6 + 2$ tens = _____    | 26     |
| 4 $76 + 20 =$ _____       | 96     |
| 5 5, 105, 205, 305, _____ | 405    |
| 6 $87 - 6$ tens = _____   | 27     |
| 7 $67 - 60 =$ _____       | 7      |
| 8 $99 - 3$ tens = _____   | 69     |
| 9 $69 - 3$ tens = _____   | 39     |
| 10 200, 150, 100, _____   | 50     |

| C   | Answer    |
|---|-----------|
| 1 On Tuesday a farmer adds 40 litres of milk to 10 litres he got on Monday. How much has he got now? _____    | 50 litres |
| 2 If I take £20 from my savings of £80, how much is left? _____   | £60       |
| 3 The total length of two sticks measuring 70cm and 60cm is _____   | 130cm     |
| 4 The difference in price between two comics costing 90p and 30p is _____                                     | 60p       |
| 5 The sum of two loads with masses 50kg and 60kg is _____   | 110kg     |
| 6 A 100ml bottle of water has 10ml more than one which contains _____   | 90ml      |
| 7 If I cut off 30m from a 90m length of rope, how much is left? _____   | 60m       |
| 8 If 7g of a 100g packet of sweets is the wrapper, how much do the sweets weigh? _____                        | 93g       |
| 9 I scored 2 tens less than Leo who scored 5 tens. What was my score? _____                                   | 30        |
| 10 The time taken for a football match was 40min plus 10min half time. How long did it take altogether? _____ | 50min     |

| Name of child<br><br>_____ |        | Diagnostic Chart for Section 3<br>Indicate where child has difficulty |   |   |   |   |   |   |   |   |    |
|----------------------------|--------|---|---|---|---|---|---|---|---|---|----|
|                            |        | 1   | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Test 1                     | Part A |   |   |   |   |   |   |   |   |   |    |
|                            | Part B |   |   |   |   |   |   |   |   |   |    |
|                            | Part C |   |   |   |   |   |   |   |   |   |    |
| Test 2                     | Part A |   |   |   |   |   |   |   |   |   |    |
|                            | Part B |   |   |   |   |   |   |   |   |   |    |
|                            | Part C |   |   |   |   |   |   |   |   |   |    |
| Test 3                     | Part A |   |   |   |   |   |   |   |   |   |    |
|                            | Part B |   |   |   |   |   |   |   |   |   |    |
|                            | Part C |   |   |   |   |   |   |   |   |   |    |
| Test 4                     | Part A |   |   |   |   |   |   |   |   |   |    |
|                            | Part B |   |   |   |   |   |   |   |   |   |    |
|                            | Part C |   |   |   |   |   |   |   |   |   |    |
| Test 5                     | Part A |   |   |   |   |   |   |   |   |   |    |
|                            | Part B |   |   |   |   |   |   |   |   |   |    |
|                            | Part C |   |   |   |   |   |   |   |   |   |    |
| Test 6                     | Part A |   |   |   |   |   |   |   |   |   |    |
|                            | Part B |   |   |   |   |   |   |   |   |   |    |
|                            | Part C |   |   |   |   |   |   |   |   |   |    |
| Test 7                     | Part A |   |   |   |   |   |   |   |   |   |    |
|                            | Part B |   |   |   |   |   |   |   |   |   |    |
|                            | Part C |   |   |   |   |   |   |   |   |   |    |
| Test 8                     | Part A |   |   |   |   |   |   |   |   |   |    |
|                            | Part B |   |   |   |   |   |   |   |   |   |    |
|                            | Part C |   |   |   |   |   |   |   |   |   |    |
| Test 9                     | Part A |   |   |   |   |   |   |   |   |   |    |
|                            | Part B |   |   |   |   |   |   |   |   |   |    |
|                            | Part C |   |   |   |   |   |   |   |   |   |    |
| Test 10                    | Part A |   |   |   |   |   |   |   |   |   |    |
|                            | Part B |   |   |   |   |   |   |   |   |   |    |
|                            | Part C |   |   |   |   |   |   |   |   |   |    |
| Test 11                    | Part A |   |   |   |   |   |   |   |   |   |    |
|                            | Part B |   |   |   |   |   |   |   |   |   |    |
|                            | Part C |   |   |   |   |   |   |   |   |   |    |
| Test 12                    | Part A |   |   |   |   |   |   |   |   |   |    |
|                            | Part B |   |   |   |   |   |   |   |   |   |    |
|                            | Part C |   |   |   |   |   |   |   |   |   |    |

## DOUBLES

|             |           |             |           |
|-------------|-----------|-------------|-----------|
| $1 + 1 =$   | <u>2</u>  | $2 - 1 =$   | <u>1</u>  |
| $2 + 2 =$   | <u>4</u>  | $4 - 2 =$   | <u>2</u>  |
| $3 + 3 =$   | <u>6</u>  | $6 - 3 =$   | <u>3</u>  |
| $4 + 4 =$   | <u>8</u>  | $8 - 4 =$   | <u>4</u>  |
| $5 + 5 =$   | <u>10</u> | $10 - 5 =$  | <u>5</u>  |
| $6 + 6 =$   | <u>12</u> | $12 - 6 =$  | <u>6</u>  |
| $7 + 7 =$   | <u>14</u> | $14 - 7 =$  | <u>7</u>  |
| $8 + 8 =$   | <u>16</u> | $16 - 8 =$  | <u>8</u>  |
| $9 + 9 =$   | <u>18</u> | $18 - 9 =$  | <u>9</u>  |
| $10 + 10 =$ | <u>20</u> | $20 - 10 =$ | <u>10</u> |

## NEAR DOUBLES

|           |           |           |           |            |          |            |          |
|-----------|-----------|-----------|-----------|------------|----------|------------|----------|
| $1 + 2 =$ | <u>3</u>  | $2 + 1 =$ | <u>3</u>  | $3 - 1 =$  | <u>2</u> | $3 - 2 =$  | <u>1</u> |
| $2 + 3 =$ | <u>5</u>  | $3 + 2 =$ | <u>5</u>  | $5 - 2 =$  | <u>3</u> | $5 - 3 =$  | <u>2</u> |
| $3 + 4 =$ | <u>7</u>  | $4 + 3 =$ | <u>7</u>  | $7 - 3 =$  | <u>4</u> | $7 - 4 =$  | <u>3</u> |
| $4 + 5 =$ | <u>9</u>  | $5 + 4 =$ | <u>9</u>  | $9 - 4 =$  | <u>5</u> | $9 - 5 =$  | <u>4</u> |
| $5 + 6 =$ | <u>11</u> | $6 + 5 =$ | <u>11</u> | $11 - 5 =$ | <u>6</u> | $11 - 6 =$ | <u>5</u> |
| $6 + 7 =$ | <u>13</u> | $7 + 6 =$ | <u>13</u> | $13 - 6 =$ | <u>7</u> | $13 - 7 =$ | <u>6</u> |
| $7 + 8 =$ | <u>15</u> | $8 + 7 =$ | <u>15</u> | $15 - 7 =$ | <u>8</u> | $15 - 8 =$ | <u>7</u> |
| $8 + 9 =$ | <u>17</u> | $9 + 8 =$ | <u>17</u> | $17 - 8 =$ | <u>9</u> | $17 - 9 =$ | <u>8</u> |

## NEAR NEAR DOUBLES

|            |           |            |           |            |           |             |          |
|------------|-----------|------------|-----------|------------|-----------|-------------|----------|
| $1 + 3 =$  | <u>4</u>  | $3 + 1 =$  | <u>4</u>  | $4 - 1 =$  | <u>3</u>  | $4 - 3 =$   | <u>1</u> |
| $2 + 4 =$  | <u>6</u>  | $4 + 2 =$  | <u>6</u>  | $6 - 2 =$  | <u>4</u>  | $6 - 4 =$   | <u>2</u> |
| $3 + 5 =$  | <u>8</u>  | $5 + 3 =$  | <u>8</u>  | $8 - 3 =$  | <u>5</u>  | $8 - 5 =$   | <u>3</u> |
| $4 + 6 =$  | <u>10</u> | $6 + 4 =$  | <u>10</u> | $10 - 4 =$ | <u>6</u>  | $10 - 6 =$  | <u>4</u> |
| $5 + 7 =$  | <u>12</u> | $7 + 5 =$  | <u>12</u> | $12 - 5 =$ | <u>7</u>  | $12 - 7 =$  | <u>5</u> |
| $6 + 8 =$  | <u>14</u> | $8 + 6 =$  | <u>14</u> | $14 - 6 =$ | <u>8</u>  | $14 - 8 =$  | <u>6</u> |
| $7 + 9 =$  | <u>16</u> | $9 + 7 =$  | <u>16</u> | $16 - 7 =$ | <u>9</u>  | $16 - 9 =$  | <u>7</u> |
| $8 + 10 =$ | <u>18</u> | $10 + 8 =$ | <u>18</u> | $18 - 8 =$ | <u>10</u> | $18 - 10 =$ | <u>8</u> |

## COUNTING ON 1 and related facts

|           |           |           |           |            |          |            |          |
|-----------|-----------|-----------|-----------|------------|----------|------------|----------|
| $1 + 1 =$ | <u>2</u>  | $1 + 1 =$ | <u>2</u>  | $2 - 1 =$  | <u>1</u> | $2 - 1 =$  | <u>1</u> |
| $2 + 1 =$ | <u>3</u>  | $1 + 2 =$ | <u>3</u>  | $3 - 1 =$  | <u>2</u> | $3 - 2 =$  | <u>1</u> |
| $3 + 1 =$ | <u>4</u>  | $1 + 3 =$ | <u>4</u>  | $4 - 1 =$  | <u>3</u> | $4 - 3 =$  | <u>1</u> |
| $4 + 1 =$ | <u>5</u>  | $1 + 4 =$ | <u>5</u>  | $5 - 1 =$  | <u>4</u> | $5 - 4 =$  | <u>1</u> |
| $5 + 1 =$ | <u>6</u>  | $1 + 5 =$ | <u>6</u>  | $6 - 1 =$  | <u>5</u> | $6 - 5 =$  | <u>1</u> |
| $6 + 1 =$ | <u>7</u>  | $1 + 6 =$ | <u>7</u>  | $7 - 1 =$  | <u>6</u> | $7 - 6 =$  | <u>1</u> |
| $7 + 1 =$ | <u>8</u>  | $1 + 7 =$ | <u>8</u>  | $8 - 1 =$  | <u>7</u> | $8 - 7 =$  | <u>1</u> |
| $8 + 1 =$ | <u>9</u>  | $1 + 8 =$ | <u>9</u>  | $9 - 1 =$  | <u>8</u> | $9 - 8 =$  | <u>1</u> |
| $9 + 1 =$ | <u>10</u> | $1 + 9 =$ | <u>10</u> | $10 - 1 =$ | <u>9</u> | $10 - 9 =$ | <u>1</u> |

## COUNTING ON 2 and related facts

|           |           |           |           |            |          |            |          |
|-----------|-----------|-----------|-----------|------------|----------|------------|----------|
| $1 + 2 =$ | <u>3</u>  | $2 + 1 =$ | <u>3</u>  | $3 - 2 =$  | <u>1</u> | $3 - 1 =$  | <u>2</u> |
| $2 + 2 =$ | <u>4</u>  | $2 + 2 =$ | <u>4</u>  | $4 - 2 =$  | <u>2</u> | $4 - 2 =$  | <u>2</u> |
| $3 + 2 =$ | <u>5</u>  | $2 + 3 =$ | <u>5</u>  | $5 - 2 =$  | <u>3</u> | $5 - 3 =$  | <u>2</u> |
| $4 + 2 =$ | <u>6</u>  | $2 + 4 =$ | <u>6</u>  | $6 - 2 =$  | <u>4</u> | $6 - 4 =$  | <u>2</u> |
| $5 + 2 =$ | <u>7</u>  | $2 + 5 =$ | <u>7</u>  | $7 - 2 =$  | <u>5</u> | $7 - 5 =$  | <u>2</u> |
| $6 + 2 =$ | <u>8</u>  | $2 + 6 =$ | <u>8</u>  | $8 - 2 =$  | <u>6</u> | $8 - 6 =$  | <u>2</u> |
| $7 + 2 =$ | <u>9</u>  | $2 + 7 =$ | <u>9</u>  | $9 - 2 =$  | <u>7</u> | $9 - 7 =$  | <u>2</u> |
| $8 + 2 =$ | <u>10</u> | $2 + 8 =$ | <u>10</u> | $10 - 2 =$ | <u>8</u> | $10 - 8 =$ | <u>2</u> |
| $9 + 2 =$ | <u>11</u> | $2 + 9 =$ | <u>11</u> | $11 - 2 =$ | <u>9</u> | $11 - 9 =$ | <u>2</u> |

## ADDING 10 and related facts

|            |           |            |           |             |          |            |           |
|------------|-----------|------------|-----------|-------------|----------|------------|-----------|
| $1 + 10 =$ | <u>11</u> | $10 + 1 =$ | <u>11</u> | $11 - 10 =$ | <u>1</u> | $11 - 1 =$ | <u>10</u> |
| $2 + 10 =$ | <u>12</u> | $10 + 2 =$ | <u>12</u> | $12 - 10 =$ | <u>2</u> | $12 - 2 =$ | <u>10</u> |
| $3 + 10 =$ | <u>13</u> | $10 + 3 =$ | <u>13</u> | $13 - 10 =$ | <u>3</u> | $13 - 3 =$ | <u>10</u> |
| $4 + 10 =$ | <u>14</u> | $10 + 4 =$ | <u>14</u> | $14 - 10 =$ | <u>4</u> | $14 - 4 =$ | <u>10</u> |
| $5 + 10 =$ | <u>15</u> | $10 + 5 =$ | <u>15</u> | $15 - 10 =$ | <u>5</u> | $15 - 5 =$ | <u>10</u> |
| $6 + 10 =$ | <u>16</u> | $10 + 6 =$ | <u>16</u> | $16 - 10 =$ | <u>6</u> | $16 - 6 =$ | <u>10</u> |
| $7 + 10 =$ | <u>17</u> | $10 + 7 =$ | <u>17</u> | $17 - 10 =$ | <u>7</u> | $17 - 7 =$ | <u>10</u> |
| $8 + 10 =$ | <u>18</u> | $10 + 8 =$ | <u>18</u> | $18 - 10 =$ | <u>8</u> | $18 - 8 =$ | <u>10</u> |
| $9 + 10 =$ | <u>19</u> | $10 + 9 =$ | <u>19</u> | $19 - 10 =$ | <u>9</u> | $19 - 9 =$ | <u>10</u> |

## MAKING 10 and related facts

|           |           |           |           |            |          |            |          |
|-----------|-----------|-----------|-----------|------------|----------|------------|----------|
| $1 + 9 =$ | <u>10</u> | $9 + 1 =$ | <u>10</u> | $10 - 1 =$ | <u>9</u> | $10 - 9 =$ | <u>1</u> |
| $2 + 8 =$ | <u>10</u> | $8 + 2 =$ | <u>10</u> | $10 - 2 =$ | <u>8</u> | $10 - 8 =$ | <u>2</u> |
| $3 + 7 =$ | <u>10</u> | $7 + 3 =$ | <u>10</u> | $10 - 3 =$ | <u>7</u> | $10 - 7 =$ | <u>3</u> |
| $4 + 6 =$ | <u>10</u> | $6 + 4 =$ | <u>10</u> | $10 - 4 =$ | <u>6</u> | $10 - 6 =$ | <u>4</u> |
| $5 + 5 =$ | <u>10</u> | $5 + 5 =$ | <u>10</u> | $10 - 5 =$ | <u>5</u> | $10 - 5 =$ | <u>5</u> |

## ADDING 9 and related facts

|           |           |           |           |            |          |            |          |
|-----------|-----------|-----------|-----------|------------|----------|------------|----------|
| $1 + 9 =$ | <u>10</u> | $9 + 1 =$ | <u>10</u> | $10 - 9 =$ | <u>1</u> | $10 - 1 =$ | <u>9</u> |
| $2 + 9 =$ | <u>11</u> | $9 + 2 =$ | <u>11</u> | $11 - 9 =$ | <u>2</u> | $11 - 2 =$ | <u>9</u> |
| $3 + 9 =$ | <u>12</u> | $9 + 3 =$ | <u>12</u> | $12 - 9 =$ | <u>3</u> | $12 - 3 =$ | <u>9</u> |
| $4 + 9 =$ | <u>13</u> | $9 + 4 =$ | <u>13</u> | $13 - 9 =$ | <u>4</u> | $13 - 4 =$ | <u>9</u> |
| $5 + 9 =$ | <u>14</u> | $9 + 5 =$ | <u>14</u> | $14 - 9 =$ | <u>5</u> | $14 - 5 =$ | <u>9</u> |
| $6 + 9 =$ | <u>15</u> | $9 + 6 =$ | <u>15</u> | $15 - 9 =$ | <u>6</u> | $15 - 6 =$ | <u>9</u> |
| $7 + 9 =$ | <u>16</u> | $9 + 7 =$ | <u>16</u> | $16 - 9 =$ | <u>7</u> | $16 - 7 =$ | <u>9</u> |
| $8 + 9 =$ | <u>17</u> | $9 + 8 =$ | <u>17</u> | $17 - 9 =$ | <u>8</u> | $17 - 8 =$ | <u>9</u> |
| $9 + 9 =$ | <u>18</u> | $9 + 9 =$ | <u>18</u> | $18 - 9 =$ | <u>9</u> | $18 - 9 =$ | <u>9</u> |

## ADDING 8 and related facts

|           |           |           |           |            |          |            |          |
|-----------|-----------|-----------|-----------|------------|----------|------------|----------|
| $1 + 8 =$ | <u>9</u>  | $8 + 1 =$ | <u>9</u>  | $9 - 8 =$  | <u>1</u> | $9 - 1 =$  | <u>8</u> |
| $2 + 8 =$ | <u>10</u> | $8 + 2 =$ | <u>10</u> | $10 - 8 =$ | <u>2</u> | $10 - 2 =$ | <u>8</u> |
| $3 + 8 =$ | <u>11</u> | $8 + 3 =$ | <u>11</u> | $11 - 8 =$ | <u>3</u> | $11 - 3 =$ | <u>8</u> |
| $4 + 8 =$ | <u>12</u> | $8 + 4 =$ | <u>12</u> | $12 - 8 =$ | <u>4</u> | $12 - 4 =$ | <u>8</u> |
| $5 + 8 =$ | <u>13</u> | $8 + 5 =$ | <u>13</u> | $13 - 8 =$ | <u>5</u> | $13 - 5 =$ | <u>8</u> |
| $6 + 8 =$ | <u>14</u> | $8 + 6 =$ | <u>14</u> | $14 - 8 =$ | <u>6</u> | $14 - 6 =$ | <u>8</u> |
| $7 + 8 =$ | <u>15</u> | $8 + 7 =$ | <u>15</u> | $15 - 8 =$ | <u>7</u> | $15 - 7 =$ | <u>8</u> |
| $8 + 8 =$ | <u>16</u> | $8 + 8 =$ | <u>16</u> | $16 - 8 =$ | <u>8</u> | $16 - 8 =$ | <u>8</u> |
| $9 + 8 =$ | <u>17</u> | $8 + 9 =$ | <u>17</u> | $17 - 8 =$ | <u>9</u> | $17 - 9 =$ | <u>8</u> |