

**A** Change to decimal fractions. When necessary work to the nearest second place.

a  $\frac{4}{5}$  \_\_\_\_\_ b  $\frac{1}{6}$  \_\_\_\_\_ c  $\frac{2}{3}$  \_\_\_\_\_ d  $\frac{7}{8}$  \_\_\_\_\_ e  $\frac{5}{7}$  \_\_\_\_\_

**B**

$\frac{1}{3} + \frac{1}{2} =$ _____	$\frac{1}{2} - \frac{1}{6} =$ _____	$\frac{2}{3} \times 12 =$ _____	Express as mixed numbers. $\frac{137}{10}$ _____ $93 \div 8$ _____ $124 \div 9$ _____
$\frac{1}{4} + \frac{1}{6} =$ _____	$\frac{3}{4} - \frac{2}{3} =$ _____	$10 \times 1\frac{2}{5} =$ _____	
$\frac{5}{8} + \frac{3}{4} =$ _____	$3 - 1\frac{7}{12} =$ _____	$1\frac{7}{10} \times 20 =$ _____	
$\frac{3}{10} + 1\frac{1}{2} =$ _____	$2\frac{1}{4} - \frac{7}{8} =$ _____	$40 \times \frac{3}{8} =$ _____	

**C** Write each fraction in its simplest form as a percentage.

a  $\frac{12}{20}$  \_\_\_\_\_ b  $\frac{28}{40}$  \_\_\_\_\_ c  $\frac{45}{100}$  \_\_\_\_\_ d  $\frac{24}{32}$  \_\_\_\_\_ e  $\frac{30}{50}$  \_\_\_\_\_

Write each of these scales as a fraction.

a 1mm to 20cm \_\_\_\_\_ b 1cm to 5m \_\_\_\_\_ c 1cm to 1km \_\_\_\_\_

**D** Fill in the table. The first example is done for you.

	fraction (simplest form)	percentage (%)	ratio
40p of 50p	$\frac{4}{5}$	80%	4:5
300g of 0.5kg		%	
700ml of 1l		%	
5p of £1		%	

	fraction (simplest form)	percentage (%)	ratio
50cm of 2m		%	
750g of 1.5kg		%	
250 of 400		%	
35p of £5		%	

**E** 8 cost £10. What fraction of £10 do

3 cost \_\_\_\_\_ 7 cost? \_\_\_\_\_

5 cost £7. What fraction of £7 do

2 cost \_\_\_\_\_ 8 cost? \_\_\_\_\_

10 cost £3.50. What fraction of £3.50 do

9 cost \_\_\_\_\_ 15 cost? \_\_\_\_\_

Share each quantity in the given ratio.

£30, ratio 3:2                      £ \_\_\_\_\_ £ \_\_\_\_\_

1.75kg, ratio 4:1                      \_\_\_\_\_ kg \_\_\_\_\_ g

2m, ratio 5:3                              \_\_\_\_\_ cm \_\_\_\_\_ cm

**F** Find the value of

$\frac{3}{10}$  of £1.60                      \_\_\_\_\_ p

0.75 of 600                              \_\_\_\_\_

60% of  $\frac{1}{2}$  kg                              \_\_\_\_\_ g

0.9 of 2l                                      \_\_\_\_\_ l

50% of 3m 70cm                              \_\_\_\_\_ m \_\_\_\_\_ cm

$\frac{3}{100}$  of 1kg                                      \_\_\_\_\_ g

0.95 of 10000                                      \_\_\_\_\_

17% of £3.00                                      \_\_\_\_\_ p

$\frac{5}{9}$  of 1.8kg.                                      \_\_\_\_\_ kg

Find the whole when

0.25 is £3.50                              £ \_\_\_\_\_

$\frac{3}{4}$  is 57cm                                      \_\_\_\_\_ cm

10% is 850g                                      \_\_\_\_\_ kg

0.6 is 42p                                        \_\_\_\_\_ p

$\frac{5}{8}$  is 2.5kg                                      \_\_\_\_\_ kg

30% is 1.8l                                      \_\_\_\_\_ l

0.375 is 300                                      \_\_\_\_\_

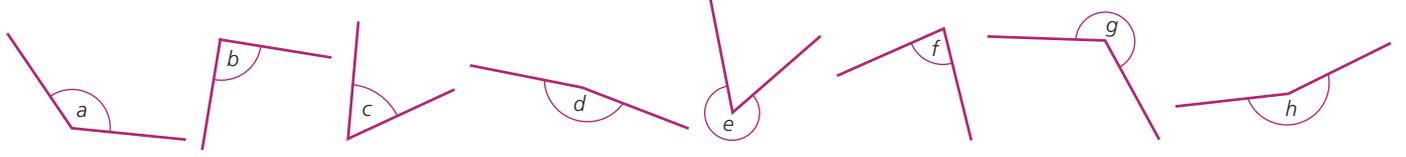
$\frac{7}{10}$  is 91p                                        £ \_\_\_\_\_

5% is 200g.                                      \_\_\_\_\_ kg

**G** Estimate which of the angles marked a – h is:

an obtuse angle of 130° \_\_\_\_\_ a right angle \_\_\_\_\_ an acute angle of 80° \_\_\_\_\_

a reflex angle of 300° \_\_\_\_\_ a reflex angle of 240° \_\_\_\_\_



**H** Find the angle marked x and/or y in each shape.

$\angle x$ _____ °				
$\angle y$ _____ °	$\angle y$ _____ °		$\angle y$ _____ °	$\angle y$ _____ °

Fill in the table for regular polygons.

name of regular polygon	number of sides	angle at centre
	6	°
octagon		°
	5	°

What fraction of the circumference is the arc xy in circle A, circle B?

A \_\_\_\_\_

B \_\_\_\_\_