Target time: **8 minutes**

1. Write the numbers 1–10 inclusive in the correct section of the Carroll diagram.

	Odd	**Not odd**
Prime		
Not prime		

2. Simplify these formulae.

a) $5e \times 5e$ _____

b) $2a + 3a \times 5$ _____

3. If Aliya saves her birthday money, her mum will increase it by 14%. Aliya is given £36 by her grandmother, £27 by her aunt, £52.20 by her uncle and £14.30 by her sister.

a) How much money does her mother give her? _____

b) How much does she have in total now? _____

4. There are 6 red counters, 4 green counters, 5 yellow counters and 7 blue counters in a bag. What is the probability of picking out either a green or a blue counter? Write the answer as a fraction in its simplest form. _____

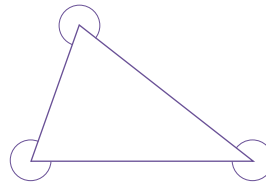**5.** Solve these calculations and write any remainders as a fraction.

a) $6 \overline{)1\ 9\ 5\ 4}$ _____

b) $1\ 2 \overline{)3\ 6\ 4\ 9}$ _____

c)
$$\begin{array}{r} 5\ 8\ 3\ 9 \\ \times\quad\ 3\ 7 \\ \hline \end{array}$$

d)
$$\begin{array}{r} 9\ 3\ 5\ 6 \\ \times\quad\ 4\ 5 \\ \hline \end{array}$$

6. Calculate the sum of all three angles shown.
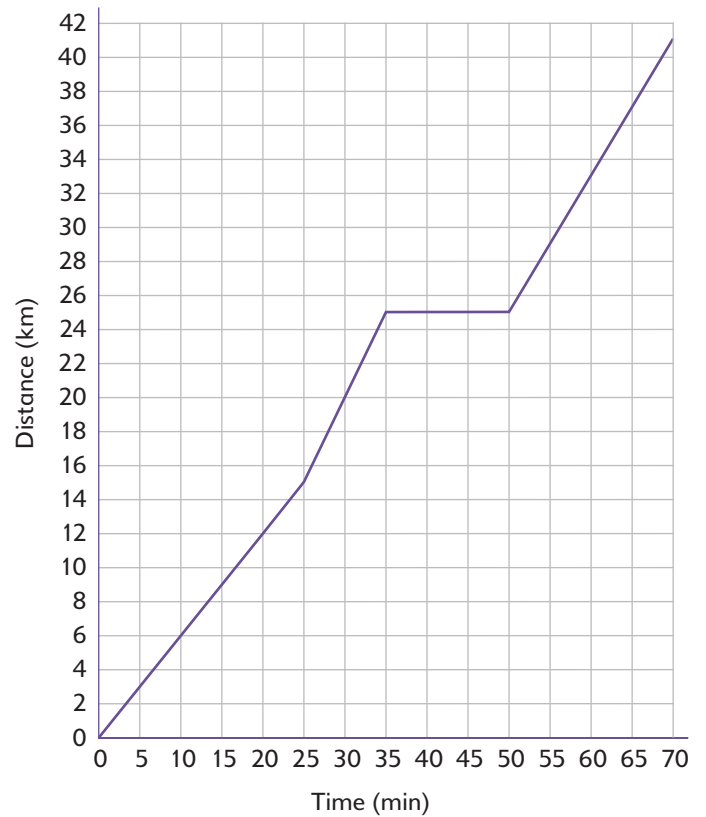

_____

7. Complete these sequences.

a) 4, 9, 19, 34, 54, _____, _____

b) 16, 8, 4, 2, 1, $\frac{1}{2}$, _____, _____

8. This line graph shows Tia's cycle journey.

Tia's journey

a) At what speed was she travelling for the first 25 minutes? _____

b) How far did she travel during the first 35 minutes? _____

c) What happened 35 minutes into her journey? _____

d) Between 50 and 70 minutes, how fast was Helen travelling? _____

| **Score:** | | **Time taken:** | | **Target met?** | |