1   Write each of these as **numbers**.

Seventy-five thousand, two hundred and thirty-eight.
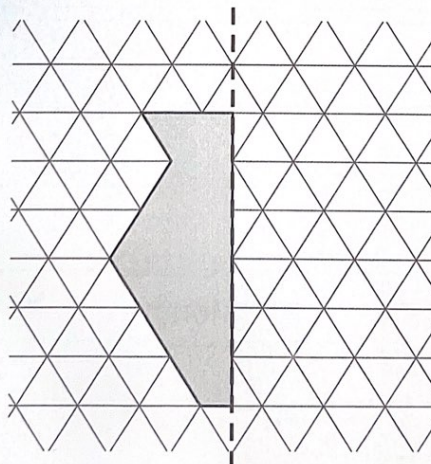
<div style="border:1px solid">   </div>

Four hundred and eighty-six thousand, two hundred and fourteen.

2   Part of a shape has been drawn below.

Complete the shape so that it is symmetrical about the mirror line.

Mirror line

3 This table shows the temperature in different countries.

Country	Spain	Finland	Canada	France
Temperature	14°C	-8°C	-4°C	6°C

Which country is **18°C** colder than Spain?

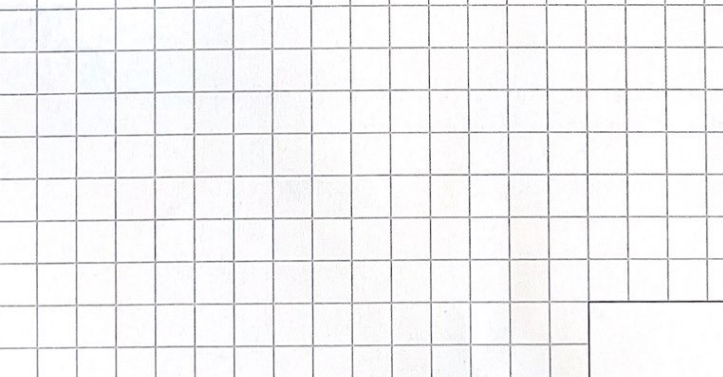How much **warmer** is it in France than in Finland?

°C

4 A school has 679 bottles of water for sports day.

They buy another 8 packs of bottled water.

Each pack contains 6 bottles.

How many bottles of water do they have in total?
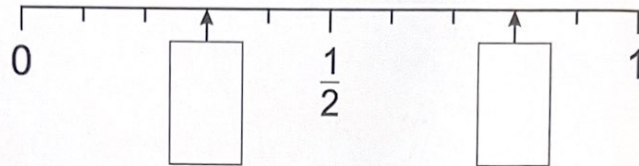
Show
your
working

5　Here is a number line.

Fill each box with the correct fraction. Give each fraction in its simplest form.

$$0 \qquad \boxed{} \qquad \frac{1}{2} \qquad \boxed{} \qquad 1$$

6　A TV channel shows two news programmes each day.
The times that these programmes start and finish are shown below.

Find the length of each programme.

| Morning News	Evening News
Start 8:05 am	Start 9:50 pm
Finish 8:45 am	Finish 10:25 pm
Length: ☐ minutes	Length: ☐ minutes

One day, the start of the morning news is delayed by **19 minutes**.
The length of the programme does not change.

What time does the morning news **finish** on this day?

☐

7 Fill in the next two numbers in this sequence.

27,   35,   43,   51,   ☐ ,   ☐

8 Tom buys four paint brushes.

He pays with a £5 note and gets £1.20 change.
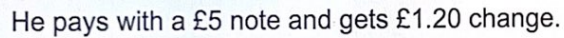
How much does **one** paint brush cost?

Show
your
working

9 A circle has a diameter of **22 cm**.

What is the **radius** of the circle?

| | cm |

10 There are 16 girls and 12 boys in Holly's class.
Each class in the school has the same number of pupils.
There are **23** classes in the school.

What is the **total** number of pupils in Holly's school?

Show
your
working

11 Fill in the gaps below with the prime factors of each number.

$$2 \times \boxed{} \times \boxed{} = 28$$

$$\boxed{} \times 3 \times \boxed{} = 45$$

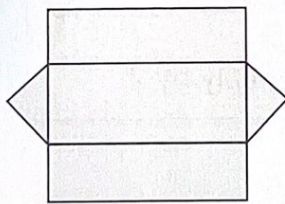**12** Some nets of 3D shapes are shown below.
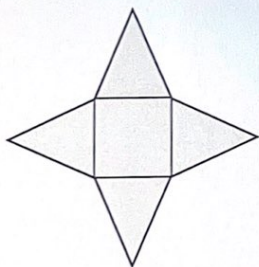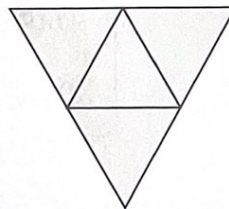
A   B   C

Give the letter of the net which could be used to make a **triangular prism**.

$$\boxed{}$$

13   Write **>**, **<** or **=** in each box to make the statements correct.

$$5 \times (12 - 8) \quad \boxed{} \quad 30$$

$$15 + 18 \div 3 \quad \boxed{} \quad 20$$

14   Emily follows the instructions on this card.

> 1) Subtract 4 from your age.
>
> 2) Then multiply by 2.

She gets an answer of **10**.

How old is Emily?

Show
your
working

15 Find the **mean** of this set of data.

3   1   2   4   5

16 On the grid below, draw a **rectangle** that has **three times** the area of the grey triangle.

17   An isosceles triangle is shown below.

Calculate the size of angle x. Do **not** use a protractor (angle measurer).

	°

18   Khalid bakes some flapjack in a rectangular tray.
He cuts it into 5 small squares and 3 large squares.

Each small square is 4.2 cm wide.

What is the width of each **large** square?

Show
your
working

	cm

19 Write the following fractions in order, from **largest** to **smallest**.

$$\frac{15}{24} \qquad \frac{9}{6} \qquad \frac{11}{8} \qquad \frac{8}{12} \qquad \frac{7}{4}$$

largest   smallest

20 A factory makes chocolate cakes.
For every **millilitre** of water in the recipe, they use 2.45 grams of flour.
One day, the factory uses **five litres** of water for the cakes.

How many grams of flour do they use?

Show your working

g