1 How many millimetres are there in a kilometre?
Circle your answer.

[1 mark]

10<sup>3</sup>

10<sup>5</sup>



10<sup>9</sup>

2 Lily's age is 2 years and 4 months.

Hugo's age is 1 year and 8 months.

Write Lily's age in months as a fraction of Hugo's age in months.

Give your fraction in its simplest form.

[2 marks]

A square has an area of 0.25 square metres.

Circle the length, in **centimetres**, of one side of the square.

[1 mark]

0.5 cm 5 cm 50 cm 
$$\sqrt{3}$$
 500 cm  $\sqrt{2}$   $\sqrt{2} = 0.25 \text{ m}^2$   $\sqrt{2} = 0.5 \text{ m}$   $\sqrt{2} = 50 \text{ cm}$ 

**4** A factory packs *x* boxes of teabags per hour.

Each box contains 80 teabags.

Show that the factory packs  $\frac{4x}{3}$  teabags per minute.

[2 marks

$$80 \times x = 80 \times 0$$

$$80 \times x = 80 \times 0$$

$$1 \text{ hour} = 80 \times \text{per mins}$$

$$= 4x \text{ per mins}$$

$$= 4x \text{ per mins}$$

5 Circle the correct statement.

[1 mark]

$$1 \text{ m}^2 = 100 \text{ mm}^2$$

$$1 \text{ m}^2 = 100 \text{ cm}^2$$

$$1 \text{ km}^2 = 100 \text{ m}^2$$

6 Concrete from a truck is poured at 10.9 kg **per second** for 30 minutes.

1000 kg = 1 tonne



Is more than 20 tonnes of concrete poured?

Tick a box.

Yes

No



You **must** show your working.

[4 marks]

which is less than

