Year 6 maths: Metric conversions and composite shapes (Medium)

Maths · Measurement · Level: Medium

Student: _____ Date: _____

Instructions
- There are 10 questions. Read each one carefully.
- Write your answers on this paper. Use the space under a question to work it out.
- A grown-up can read a question aloud — that's fine.
- The answers are at the end. Check them together when you have finished.

Questions

1. A truck carries 3.6 t of sand. How many kilograms is that?

Answer: _____ kg

Working:

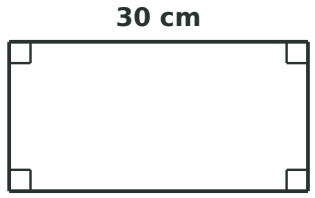
2. Mina cycles 3 km 450 m. How many metres is that?

Answer: _____ m

Working:

3. A frame is 30 cm long and 150 mm wide. What is its perimeter in centimetres?

Answer: _____ cm



Not to scale

Working:

4. A smoothie has 1.2 L of milk and 350 mL of cream. How many millilitres is that in all?

Answer: _____ mL

Working:

5. Which length is the greatest?

Circle one answer.

○ **A** 3 m 5 cm ○ **B** 350 mm ○ **C** 3.5 m

6. How many 250 mL cups can be filled from a 3 L jug?

Answer: ____ cups

Working:

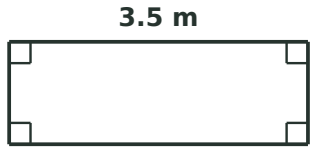
7. A road train hauls 9.21 tonnes of ore and 3480 kg of equipment. What is the total mass in kilograms? Write a whole number.

Answer: ____ kg

Working:

8. This garden bed is 3.5 m long and 90 cm wide. What is its perimeter in metres? Write a decimal.

Answer: ____ m



Not to scale

Working:

9. A paddock is 400 m long and 250 m wide. What is its area in hectares? 1 ha = 10 000 m². Write a whole number.

Answer: ____ ha

Working:

10. A water pipe has an outer diameter of 6.3 cm and an inner diameter of 5.5 cm. How thick is the pipe wall?

Circle one answer.

○ **A** 40 mm ○ **B** 8 cm ○ **C** 0.4 mm ○ **D** 4 mm

Answer key

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1. 3600 kg

3.6 t is 3.6 × 1000 = 3600 kg.

2. 3450 m

3 km is 3000 m. 3000 + 450 = 3450 m.

3. 90 cm

150 mm is 15 cm. Perimeter = 30 + 15 + 30 + 15 = 90 cm.

4. 1550 mL

1.2 L is 1200 mL. 1200 + 350 = 1550 mL.

5. C — 3.5 m

3.5 m is 350 cm. 3 m 5 cm is 305 cm. 350 mm is only 35 cm.

6. 12 cups

3 L is 3000 mL. 3000 ÷ 250 = 12 cups.

7. 12 690 kg

9.21 t = 9210 kg. 9210 + 3480 = 12 690 kg.

8. 8.8 m

90 cm = 0.9 m. Perimeter = 2 × (3.5 + 0.9) = 8.8 m.

9. 10 ha

400 × 250 = 100 000 m². 100 000 ÷ 10 000 = 10 ha.

10. D — 4 mm

6.3 − 5.5 = 0.8 cm covers both sides of the wall. One wall is 0.8 ÷ 2 = 0.4 cm = 4 mm.