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

Maths · Measurement
Level: Easy

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 6 tonnes of gravel. How many kilograms is that?

Answer: ☐ kg

Working:

2. Mia buys 3 kg of flour and 500 g of sugar. How many grams is that altogether?

Answer: ☐ g

Working:

3. Which unit is best for the mass of a loaded truck?

Circle one answer.

○ **A** grams ○ **B** millimetres ○ **C** tonnes

4. Which is the greatest mass?

Circle one answer.

○ **A** 3500 kg ○ **B** 900 kg ○ **C** 4 t

5. Tick every object that is best measured in tonnes.

Tick every answer that fits.

☐ **A** a brick ☐ **B** a school bus ☐ **C** a bag of oranges

☐ **D** a blue whale ☐ **E** a jumbo jet

6. A road tanker carries 7.45 tonnes of grain. How many kilograms is that? Write a whole number.

Answer: ☐ kg

Working:

7. Which mass is the same as 11 802 g?

Circle one answer.

○ **A** 118.02 kg ○ **B** 1.1802 kg ○ **C** 11.802 kg ○ **D** 11 802 000 kg

8. Metal sheets are each 1.5 mm thick. How many sheets make a stack 3 cm high? Write a whole number.

Answer: ☐ sheets

Working:

9. A rainwater tank holds 4500 litres. How many kilolitres (kL) is that? 1 kL = 1000 L. Write a decimal.

Answer: ☐ kL

Working:

10. A pipe has an inner diameter of 3.2 cm. Its wall is 4 mm thick all round. What is the outer diameter?

Circle one answer.

○ **A** 4.4 cm ○ **B** 328 mm ○ **C** 7.2 mm ○ **D** 40 mm

Answer key

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1. 6000 kg

1 tonne is 1000 kg. 6 × 1000 = 6000 kg.

2. 3500 g

Change 3 kg to 3000 g first. 3000 + 500 = 3500 g.

3. C — tonnes

A truck is very heavy, so tonnes suit it. Millimetres measure length.

4. C — 4 t

4 t is 4000 kg. That is more than 3500 kg and 900 kg.

5. B — a school bus; D — a blue whale; E — a jumbo jet

A bus, a blue whale and a jumbo jet are extremely heavy: tonnes. A brick and a bag of oranges are measured in kilograms or grams.

6. 7450 kg

1 tonne is 1000 kg. 7.45 × 1000 = 7450 kg.

7. C — 11.802 kg

1000 g is 1 kg, so divide by 1000: 11 802 ÷ 1000 = 11.802 kg.

8. 20 sheets

3 cm = 30 mm. 30 ÷ 1.5 = 20 sheets.

9. 4.5 kL

4500 ÷ 1000 = 4.5 kL.

10. D — 40 mm

3.2 cm = 32 mm. The wall is on both sides: 2 × 4 = 8 mm. 32 + 8 = 40 mm.