

Year 4: Changing units: km, m, cm, mm, kg, g, l and ml: answers

Year 4 - Perimeter, Area and Measures - Lesson 7.3

Answers. Final answers to the worksheet questions. Full step-by-step solutions for every question are free at websink.site/ks2-sats/maths/year-4/ch07-measures/changing-units-km-m-cm-mm-kg-g-l-and-ml/

Exercise 7D Changing units

Non-calculator

1 Quick-fire! Change each length to centimetres.

(a) 4 m = cm

Answer: 400 cm

(b) 9 m = cm

Answer: 900 cm

(c) 12 m = cm

Answer: 1,200 cm

(d) 30 m = cm

Answer: 3,000 cm

2 Fill in the missing number.

(a) 3 kg = g

Answer: 3,000 g

(b) 8 kg = g

Answer: 8,000 g

(c) 5 l = ml

Answer: 5,000 ml

(d) 12 l = ml

Answer: 12,000 ml

(e) 6 km = m

Answer: 6,000 m

(f) 20 km = m

Answer: 20,000 m

3 Change each length to millimetres.

(a) 5 cm = mm

Answer: 50 mm

(b) $18 \text{ cm} = \boxed{?} \text{ mm}$

Answer: 180 mm

(c) $40 \text{ cm} = \boxed{?} \text{ mm}$

Answer: 400 mm

4 Divide to change to the bigger unit.

(a) $700 \text{ cm} = \boxed{?} \text{ m}$

Answer: 7 m

(b) $4,000 \text{ g} = \boxed{?} \text{ kg}$

Answer: 4 kg

(c) $9,000 \text{ ml} = \boxed{?} \text{ l}$

Answer: 9 l

(d) $5,000 \text{ m} = \boxed{?} \text{ km}$

Answer: 5 km

(e) $600 \text{ cm} = \boxed{?} \text{ m}$

Answer: 6 m

(f) $90 \text{ mm} = \boxed{?} \text{ cm}$

Answer: 9 cm

5 These measures have decimals. Change each one to the smaller unit.

(a) $1.5 \text{ km} = \boxed{?} \text{ m}$

Answer: 1,500 m

(b) $2.5 \text{ kg} = \boxed{?} \text{ g}$

Answer: 2,500 g

(c) $0.5 \text{ l} = \boxed{?} \text{ ml}$

Answer: 500 ml

(d) $3.5 \text{ m} = \boxed{?} \text{ cm}$

Answer: 350 cm

(e) $0.25 \text{ l} = \boxed{?} \text{ ml}$

Answer: 250 ml

(f) $1.75 \text{ m} = \boxed{?} \text{ cm}$

Answer: 175 cm

6 Change each measure to the bigger unit. Your answers will have decimals.

(a) $250 \text{ cm} = \boxed{?} \text{ m}$

Answer: 2.5 m

(b) $1,500 \text{ g} = \boxed{?} \text{ kg}$

Answer: 1.5 kg

(c) $750 \text{ ml} = \boxed{?} \text{ l}$

Answer: 0.75 l

(d) $4,500 \text{ m} = \boxed{?} \text{ km}$

Answer: 4.5 km

(e) $35 \text{ mm} = \boxed{?} \text{ cm}$

Answer: 3.5 cm

(f) $125 \text{ cm} = \boxed{?} \text{ m}$

Answer: 1.25 m

7 Write each measure using only the smaller unit.

(a) $3 \text{ m } 40 \text{ cm} = \boxed{?} \text{ cm}$

Answer: 340 cm

(b) $2 \text{ kg } 350 \text{ g} = \boxed{?} \text{ g}$

Answer: 2,350 g

(c) $5 \text{ l } 200 \text{ ml} = \boxed{?} \text{ ml}$

Answer: 5,200 ml

(d) $1 \text{ km } 750 \text{ m} = \boxed{?} \text{ m}$

Answer: 1,750 m

8 Write each measure using two units (for example $1,450 \text{ g} = 1 \text{ kg } 450 \text{ g}$).

(a) $275 \text{ cm} = \boxed{?}$

Answer: 2 m 75 cm

(b) $1,450 \text{ g} = \boxed{?}$

Answer: 1 kg 450 g

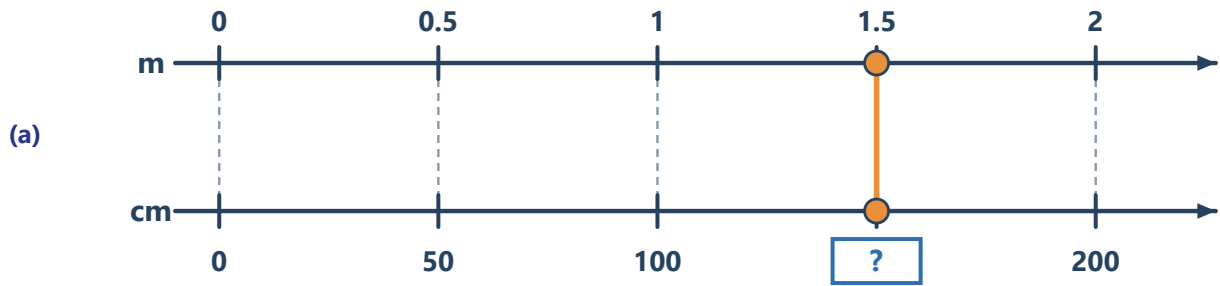
(c) $3,600 \text{ ml} = \boxed{?}$

Answer: 3 l 600 ml

(d) $2,300 \text{ m} = \boxed{?}$

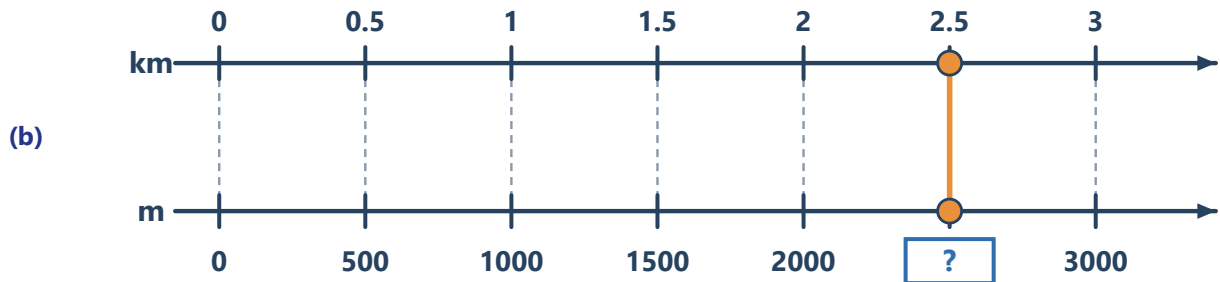
Answer: 2 km 300 m

9 Use the double number lines to fill in the missing numbers.



$$1.5 \text{ m} = \boxed{?} \text{ cm}$$

Answer: 150 cm



$$2.5 \text{ km} = \boxed{?} \text{ m}$$

Answer: 2,500 m

- 10** A bridge is 2.4 km long. How long is the bridge in metres?

Answer: 2,400 m

- 11** Dev has a ribbon 3.5 m long. He cuts it into pieces that are each 50 cm long. How many pieces does he get?

Answer: 7 pieces

- 12** A recipe needs 1.5 kg of flour. Mei has 900 g of flour. How much more flour does she need? Give your answer in grams.

Answer: 600 g

- 13** Mei says, "3.5 km = 350 m." What mistake has she made? What is the correct answer?

Answer: 3,500 m

- 14** Always, sometimes or never true? "When you change a length from metres to centimetres, the number gets bigger." Explain.

Answer: Always

- 15** Which is the odd one out? 2.5 m 250 cm 25 m 2 m 50 cm Explain.

Answer: 25 m

- 16** I am a length. I am between 2 m and 3 m. In centimetres, my hundreds digit is 2, my tens digit is 5 and my ones digit is 0. What am I in centimetres? What am I in metres?

Answer: 250 cm = 2.5 m