

Measures

ANSWERS

No calculator | 30 minutes | Total marks: 29

Name Class

1

Change

(a) 2.5 hours into minutes

Answer 150 (1) minutes [1 mark]

(b) 3 days into hours

Answer 72 (1) hours [1 mark]

(c) 450 seconds into minutes

Answer 7.5 (1) minutes [1 mark]

2

A train leaves at 09:47 and arrives at 12:15

Work out how long the journey takes.

09:47 to 10:00 is 13 minutes, then 2 hours 15 minutes (1)

Answer 2 hours 28 minutes (1) [2 marks]

3

Here is part of a bus timetable.

Ashby	09:15	09:45	10:15
Milford	09:42	10:12	10:42
Seaton	09:55	10:25	10:55

Kim needs to be in Milford by 10:30

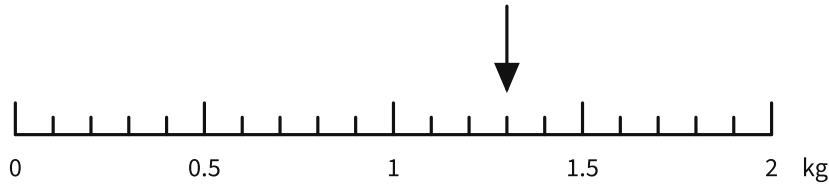
(a) What is the time of the latest bus she can catch from Ashby?

Answer 09:45 (1) [1 mark]

(b) How long will she have to wait in Milford before 10:30?

Answer 18 (1) minutes [1 mark]

4



(a) What does each small division on the scale represent?

Answer 0.1 (1) kg [1 mark]

(b) Write down the mass shown on the scale.

Answer 1.3 (1) kg [1 mark]

5

Change

(a) 3.6 m into centimetres

Answer 360 (1) cm [1 mark]

(b) 0.45 kg into grams

Answer 450 (1) g [1 mark]

(c) 2300 ml into litres

Answer 2.3 (1) litres [1 mark]

(d) 3.2 tonnes into kilograms

Answer 3200 (1) kg [1 mark]

(e) 750 cm³ into millilitres

Answer 750 (1) ml [1 mark]

6

(a) 1 inch = 2.5 cm

Change 12 inches into centimetres.

Answer 30 (1) cm [1 mark]

(b) 5 miles = 8 km

Change 40 km into miles.

$$40 \div 8 = 5 \text{ (1)}$$

Answer 5 (1) miles [2 marks]

7

The length of a pencil is 12 cm to the nearest centimetre.

(a) Write down the least possible length of the pencil.

Answer 11.5 (1) cm [1 mark]

(b) Write down the upper bound for the length of the pencil.

Answer 12.5 (1) cm [1 mark]

8

(a) A car travels 150 km in 2.5 hours.

Work out the average speed of the car.

$$150 \div 2.5 \text{ (1)}$$

Answer 60 (1) km/h [2 marks]

(b) A cyclist rides at 45 km/h for 20 minutes.

Work out how far the cyclist rides.

$$20 \text{ minutes} = \frac{1}{3} \text{ hour (1)}$$

Answer 15 (1) km [2 marks]

(c) A coach travels 120 miles at an average speed of 40 mph.

Work out how long the journey takes.

$$120 \div 40 \text{ (1)}$$

Answer 3 (1) hours [2 marks]

9

- (a) A block of metal has a mass of 540 g and a volume of 200 cm³

Work out the density of the metal.

$$540 \div 200 \text{ (1)}$$

Answer 2.7 (1) g/cm³ [2 marks]

- (b) A different metal has a density of 8 g/cm³

Work out the mass of 50 cm³ of this metal.

$$8 \times 50 \text{ (1)}$$

Answer 400 (1) g [2 marks]

Question	Topic	RAG
1	I can convert units of time	
2	I can calculate with time	
3	I can solve a timetable problem	
4	I can read a scale and explain its divisions	
5	I can convert metric units	
6	I can convert between metric and imperial units	
7	I can find the bounds of a measurement	
8	I can calculate with speed, distance and time	
9	I can calculate with density, mass and volume	