

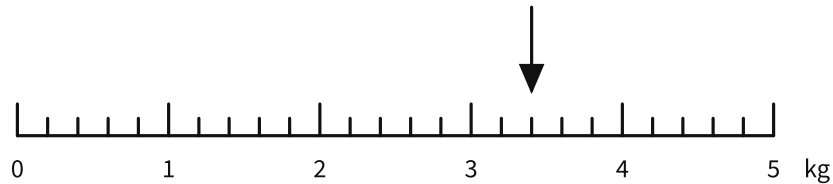
# Measure

ANSWERS

Calculator | 30 minutes | Total marks: 28

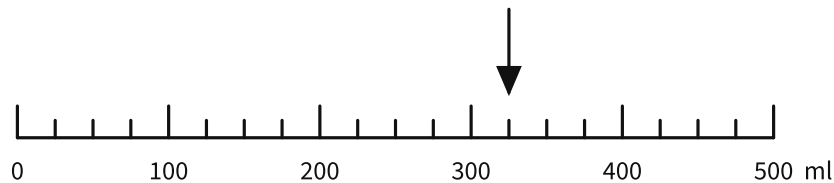
Name ..... Class .....

- 1 (a) Write down the mass shown on the scale.



Answer 3.4 (1) kg [1 mark]

- (b) Write down the volume shown on the scale.



Answer 320 (1) ml [1 mark]

- 2 (a) Write 3:45 pm using the 24 hour clock.

Answer 15:45 (1) [1 mark]

- (b) A film starts at 19:35 and lasts for 1 hour 50 minutes.

What time does the film end?

*19:35 + 2 hours = 21:35, then back 10 minutes (1)*

Answer 21:25 (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 |

(a) How long does the 09:45 bus from Ashby take to get to Seaton?

Answer 40 (1) minutes [1 mark]

(b) Kim needs to be in Milford by 10:30

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

Answer 09:45 (1) [1 mark]

4

Change

(a) 3.6 km into metres

Answer 3600 (1) m [1 mark]

(b) 450 g into kilograms

Answer 0.45 (1) kg [1 mark]

(c) 5 m<sup>2</sup> into cm<sup>2</sup>

$$100 \times 100 = 10\,000 \text{ (1)}$$

Answer 50\,000 (1) cm<sup>2</sup> [2 marks]

5

8 kilometres = 5 miles

Change 120 kilometres into miles.

$$120 \div 8 = 15, \text{ then } 15 \times 5 \text{ (1)}$$

Answer 75 (1) miles [2 marks]

**6**

- (a) A car travels 150 km in 2 hours 30 minutes.

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 18 km/h for 40 minutes.

Work out how far the cyclist rides.

$$40 \text{ minutes} = \frac{2}{3} \text{ hour, } 18 \times \frac{2}{3} \text{ (1)}$$

Answer 12 (1) km [2 marks]**7**

- (a) A block of metal has a mass of 540 g and a volume of 200 cm
- <sup>3</sup>

Work out the density of the metal.

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

Answer 2.7 (1) g/cm<sup>3</sup> [2 marks]

- (b) A different metal has a density of 8 g/cm
- <sup>3</sup>

Work out the mass of 25 cm<sup>3</sup> of this metal.

$$8 \times 25 \text{ (1)}$$

Answer 200 (1) g [2 marks]**8**

- Ali is paid £11.50 for each hour he works.

Work out how much he is paid for 36 hours.

$$11.50 \times 36 \text{ (1)}$$

Answer £ 414 (1) [2 marks]

9

A shop sells rice in two sizes of bag.

Bag A has 400 g of rice and costs £1.80

Bag B has 650 g of rice and costs £2.86

Which bag is better value?

You **must** show your working.

$$A: 180 \div 400 = 0.45p \text{ per gram (1)}$$

$$B: 286 \div 650 = 0.44p \text{ per gram (1)}$$

Answer Bag B (1)

[3 marks]

10

$$\text{pressure} = \frac{\text{force}}{\text{area}}$$

A force of 600 newtons acts on an area of 4 m<sup>2</sup>

Work out the pressure.

$$600 \div 4 \text{ (1)}$$

Answer 150 (1)

N/m<sup>2</sup>

[2 marks]

| Question | Topic                                           | RAG |
|----------|-------------------------------------------------|-----|
| 1        | I can read scales                               |     |
| 2        | I can use the 24 hour clock and work out times  |     |
| 3        | I can use a timetable                           |     |
| 4        | I can convert metric units, including area      |     |
| 5        | I can convert between metric and imperial units |     |
| 6        | I can calculate with speed, distance and time   |     |
| 7        | I can calculate with density, mass and volume   |     |
| 8        | I can use a rate of pay                         |     |
| 9        | I can find the better value                     |     |
| 10       | I can calculate pressure                        |     |