

GCSE Maths: Metric units and time (Foundation): worksheet

GCSE Maths - Units and Compound Measures - Foundation - Lesson 16.1

Name: _____

Date: _____

Score: _____

31 questions. Write your answers in the spaces. Answers and step-by-step help are free at websink.site/gcse/maths/ch16-units-compound-measures/foundation/metric-units-and-time/

Exercise 16A Metric units of length, mass and capacity Non-calculator

1 How many grams are there in 5 kilograms?

Answer: _____

2 Change each length to the unit shown.

(a) 3 m to cm

Answer: _____

(b) 450 cm to m

Answer: _____

(c) 2.5 km to m

Answer: _____

(d) 6000 m to km

Answer: _____

(e) 8 cm to mm

Answer: _____

(f) 35 mm to cm

Answer: _____

3 Change each mass to the unit shown.

(a) 4 kg to g

Answer: _____

(b) 3500 g to kg

Answer: _____

(c) 2 tonnes to kg

Answer: _____

(d) 7500 kg to tonnes

Answer: _____

(e) 0.6 kg to g

Answer: _____

(f) 450 g to kg

Answer: _____

4 Change each capacity to the unit shown.

(a) 3 litres to ml

Answer:

(b) 4500 ml to litres

Answer:

(c) 250 cl to litres

Answer:

(d) 1.5 litres to cl

Answer:

(e) 8 cl to ml

Answer:

(f) 90 ml to cl

Answer:

5 Write these masses in order of size, largest first: 1.2 kg, 950 g, 1.05 kg, 1100 g.

Answer:

6 These need two steps. Change each measurement to the unit shown.

(a) 0.4 km to cm

Answer:

(b) 0.02 tonnes to g

Answer:

(c) 3 km to mm

Answer:

(d) 5,000,000 mg to kg

Answer:

7 A bag of flour has mass 1.5 kg. How many 250 g portions can be made from one bag?

Answer:

8 A jug holds 1.2 litres of squash. Each glass holds 150 ml. How many glasses can be filled?

Answer:

9 Sam says "3.5 kg is 350 g". Explain what Sam has done wrong and give the correct answer.

Answer:

10 A running track is 400 m long. Asha runs 5 laps. How far does she run, in kilometres?

Answer:

11 Work out $1.4\text{ m} + 35\text{ cm} + 800\text{ mm}$. Give your answer in centimetres.

Answer:

12 Three parcels have masses 1.2 kg, 850 g and 2.05 kg. Work out the total mass in kilograms.

Answer:

13 A 3 m length of wood is cut into pieces of length 35 cm. How many whole pieces can be cut, and how much wood is left over?

Answer:

- 14** A doctor gives 5 ml of medicine at each dose. A bottle holds 0.25 litres. How many doses are in a full bottle?

Answer:

- 15** Is 0.05 km longer than 5000 cm? Show your working.

Answer:

- 16** A tap drips 2 ml of water every 10 seconds. How many litres of water does it waste in one day? Give your answer to 2 decimal places.

Answer:

Exercise 16B Time Non-calculator

- 1** How many minutes are there in 2 hours?

Answer:

- 2** Change each time to the unit shown.

(a) 3 minutes to seconds

Answer:

(b) 2 hours to minutes

Answer:

(c) 180 seconds to minutes

Answer:

(d) 300 minutes to hours

Answer:

(e) 5 days to hours

Answer:

(f) 3 weeks to days

Answer:

- 3** Write each time using the 24-hour clock.

(a) 7:30 am

Answer:

(b) 2:15 pm

Answer:

(c) 11:40 pm

Answer:

(d) 12:05 am

Answer:

(e) 12:30 pm

Answer:

(f) 9:05 pm

Answer:

4 Write each time using the 12-hour clock (with am or pm).

(a) 06:45

Answer:

(b) 13:20

Answer:

(c) 20:05

Answer:

(d) 00:15

Answer:

(e) 12:50

Answer:

(f) 23:59

Answer:

5 Work out the time taken from the start time to the finish time.

(a) 07:15 to 09:40

Answer:

(b) 10:50 to 14:25

Answer:

(c) 16:35 to 20:10

Answer:

(d) 22:20 to 01:05

Answer:

6 Work out the finishing time on the 24-hour clock.

(a) Start 08:30, takes 2 hours 45 minutes

Answer:

(b) Start 13:40, takes 1 hour 35 minutes

Answer:

(c) Start 18:20, takes 3 hours 50 minutes

Answer:

(d) Start 21:45, takes 4 hours 30 minutes

Answer:

7 Write each time in hours and minutes.

(a) 3.5 hours

Answer:

(b) 1.25 hours

Answer:

(c) 2.4 hours

Answer:

(d) 0.75 hours

Answer:

8 Write each time as a decimal number of hours.

(a) 2 hours 30 minutes

Answer:

(b) 1 hours 45 minutes

Answer:

(c) 3 hours 12 minutes

Answer:

(d) 4 hours 6 minutes

Answer:

9 Here is part of a train timetable.

Station	Time
Bellview	07:48
Corton	08:26
Dunmere	09:05
Eastgate	09:41

Work out the journey time from

(a) Bellview to Eastgate

Answer:

(b) Corton to Dunmere

Answer:

(c) Bellview to Corton, and then Corton to Eastgate. Write both answers.

Answer:

10 A film starts at 7:45 pm and lasts 2 hours 25 minutes. At what time does it finish? Give your answer using the 12-hour clock.

Answer:

11 How many seconds are there in one day?

Answer:

12 Jo runs for 50 minutes, 3 times a week. How many hours does she run in 4 weeks?

Answer:

13 Ben says "3.4 hours is 3 hours 40 minutes". Is he correct? Explain.

Answer:

- 14** A night shift starts at 21:45 and finishes at 06:20 the next morning. There is a 35 minute unpaid break. Pay is £9.40 per hour. Work out the pay for the shift.

Answer:

- 15** A concert starts at 7:30 pm and finishes at 10:05 pm. An interval of 20 minutes is included. For how many minutes is the music played?

Answer:

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