FOUNDATION & HIGHER

SAME AT BOTH TIERS

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

G14: Units of measure

Standard units of length, area, volume, capacity, mass, time and money

20 marks · 25 minutes · Non-calculator

1) Choose the most suitable metric unit to measure

(a) the area of a football pitch

.....

(1)

(b) the capacity of a mug

.....

(1)

(c) the mass of a lorry

.....

(1)

[Question 1: 3 marks]

2) Convert 3.2 tonnes to kilograms.

..... kg

[Question 2: 1 marks]

3) Convert 1.5 litres to cm^3.

..... cm^3

[Question 3: 1 marks]

4) Convert 850 mm to metres.

..... m

[Question 4: 1 marks]

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5) A rectangle measures 2.5 m by 80 cm. Find its area in m^2.

..... m^2

[Question 5: 2 marks]

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6) A cuboid tank measures 1.2 m by 50 cm by 30 cm.

(a) Find its volume in m^3.

..... m^3

(2)

(b) How many litres does it hold? (1 m^3 = 1000 litres)

..... litres

(1)

[Question 6: 3 marks]

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7) (a) How long is it from 08:45 to 11:20?

.....

(1)

(b) Work out 3× (4 hours 45 minutes). Give your answer in hours and minutes.

.....

(1)

[Question 7: 2 marks]

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8) Find the cost of 6 items at £3.85 each.

£ .....

[Question 8: 1 marks]

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9) Estimate the height of a classroom door in metres.

..... m

[Question 9: 1 marks]

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10) Convert 45 000 cm^2 to m^2.

..... m^2

[Question 10: 2 marks]

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11) A bird flies at 15 m/s for 2 minutes. How far does it fly?

..... m

[Question 11: 1 marks]

12) A tank holds 0.6 m^3. How many litres is this?

..... litres

[Question 12: 1 marks]

13) Which is larger: 3500 cm^3 or 3 litres?

.....

[Question 13: 1 marks]

End of paper – 20 marks in total

Answers and brief mark scheme

Q	Answer	Method / notes
1	(a) m^2 (b) ml (or cm^3) (c) tonnes	B1 each.
2	3200	B1.
3	1500	B1.
4	0.85	B1.
5	2	2.5×0.8 (M1); A1.
6	(a) 0.18 (b) 180	(a) $1.2 \times 0.5 \times 0.3$ (M1); A1. (b) B1.
7	(a) 2 h 35 min (b) 14 h 15 min	B1 each.
8	£23.10	B1.
9	about 2	B1 (accept 1.8 to 2.5).
10	4.5	$\div 10\,000$ (M1); A1.
11	1800	B1.
12	600	B1.
13	3500 cm^3	B1.