FOUNDATION & HIGHER

SAME AT BOTH TIERS

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

R1: Converting units

Change between standard units and compound units

20 marks · 25 minutes · Non-calculator

1) Convert

(a) 4.2 kg to grams

..... g

(1)

(b) 380 cm to metres

..... m

(1)

(c) 2.75 hours to minutes

..... minutes

(1)

(d) 6500 ml to litres

..... litres

(1)

[Question 1: 4 marks]

2) Convert 5 m^2 to cm^2

..... cm^2

[Question 2: 2 marks]

3) Convert 0.8 m^3 to litres. (1 m^3 = 1000 litres)

..... litres

[Question 3: 1 marks]

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4) Convert 45 000 cm^3 to m^3

..... m^3

[Question 4: 2 marks]

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5) Convert 72 km/h to m/s

..... m/s

[Question 5: 2 marks]

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6) Convert 15 m/s to km/h

..... km/h

[Question 6: 2 marks]

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7) A metal has a density of 2.7 g/cm^3. Write this density in kg/m^3.

..... kg/m^3

[Question 7: 2 marks]

8) Ella is paid £9.60 per hour. How much is this in pence per minute?

..... pence

[Question 8: 2 marks]

9) Write an expression for

(a) x hours, in minutes

..... minutes

(1)

(b) y cm, in metres

..... m

(1)

[Question 9: 2 marks]

10) Write 3 hours 45 minutes in hours, as a decimal.

..... hours

[Question 10: 1 marks]

End of paper – 20 marks in total

Answers and brief mark scheme

Q	Answer	Method / notes
1	(a) 4200 (b) 3.8 (c) 165 (d) 6.5	B1 each.
2	50 000	100^2 (M1); A1.
3	800	B1.
4	0.045	$100^3 = 1\,000\,000$ (M1); A1.
5	20	$72\,000 \div 3600$ (M1); A1.
6	54	$15 \times 3600 \div 1000$ (M1); A1.
7	2700	$\times 1000$ (M1); A1.
8	16	$960 \div 60$ (M1); A1.
9	(a) $60x$ (b) $\frac{y}{100}$	B1 each.
10	3.75	B1.