R1/R2/R3 Converting Metrics

OCR

Created	by	W	Neil	
creared	Uy	VV	INCII	

- 8 Liam is 0.83 metres tall.
- William is 1.31 metres tall.

 Jacob is taller than Liam by half the difference between Liam's height and William's height.

How tall is Jacob?

..... m [3]

- 8 Liam is 0.83 metres tall.
- William is 1.31 metres tall.

 Jacob is taller than Liam by half the difference between Liam's height and William's height.

/2 difference (0.48m) = 0.24m Jacob = 0.83 How tall is Jacob?

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	9 ((a)	Convert	485 cm	to	metres.
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(a) m[1]

(b) (i) Zara says

10 litres = 18 pints.

Use Zara's conversion to convert 25 litres into pints.

(b)(i).....pints[2]

9 (a) Convert 485 cm to metres.

(b) (i) Zara says

Use Zara's conversion to convert 25 litres into pints.

$$\frac{1}{2} \left(\frac{10L}{5L} = \frac{18p}{9p} \right) = \frac{1}{2}$$

(b)(i).....pints[2]

Edexcel

7 Jaroslav puts some items into his rucksack.

The table shows the weight of each item.

Item	Weight
2 apples	120g each
2 bottles of water	524g each
camera	474 g
map	86g
mobile phone	214g
umbrella	339g

The rucksack has a weight of 275 g.

Work out the total weight of the rucksack and all the items. Give your answer in kilograms.

	kg
--	----

7 Jaroslav puts some items into his rucksack.

The table shows the weight of each item.

Item	Weight		
2 apples	120g each	2409	
2 bottles of water	524g each	1048g 474g	2676 q
camera	474 g	4749	20109
map	86g	869	
mobile phone	214g	2149	1000g = 1 Kc
umbrella	339g	3399	J
he rucksack has a weig	ght of 275 g.)	2759	

Work out the total weight of the rucksack and all the items. Give your answer in kilograms.

2.676 kg

11 Polly has a full 5 kg sack of rice.

She pours the rice from this sack into bags. She fills as many bags as possible.

Each full bag contains 350 g of rice.

(a) How many bags did Polly fill from this sack of rice?

Polly assumes that the rice from two sacks will fill twice as many bags as the rice from one sack.

(b) Is Polly correct?

You must give a reason for your answer.

11 Polly has a full 5 kg sack of rice.

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She pours the rice from this sack into bags. She fills as many bags as possible.

Each full bag contains 350 g of rice.

(a) How many bags did Polly fill from this sack of rice?

$$5 kg = 5000 g rams = 14.28$$
 $350 g$

Polly assumes that the rice from two sacks will fill twice as many bags as the rice from one sack.

(b) Is Polly correct?

You must give a reason for your answer.

ive a reason for your answer.
$$\frac{10000g}{350g} = 28.5...$$
Yes, double 14 is 28

created by W Men	Created	by	W	Nei
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2	Change 350 centimetres into metres.	
	metr	es
	(Total for Question 2 is 1 mark)	

2 Change 350 centimetres into metres.

100 cm = 1m

 $\leq \cdot \leq$ metres

(Total for Question 2 is 1 mark)

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4 Change 7500 grams into kilograms.

R2

.....kilograms

(Total for Question 4 is 1 mark)

4 Change 7500 grams into kilograms.

R2

1000g = 1Kg

7.5 kilograms

(Total for Question 4 is 1 mark)

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3 Change 2.5 litres into millilitres.

R3

millilitres

(Total for Question 3 is 1 mark)

3 Change 2.5 litres into millilitres.

R3

1000ml = 1L

 $2500_{\text{millilitres}}$

(Total for Question 3 is 1 mark)

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1 (a) Change 365 cm into metres	1 ((a)	Change	365 cm	into	metres
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 	m
(1)	

(b) Change 2.7 kg into grams.

(Total for Question 1 is 2 marks)

1 (a) Change 365 cm into metres.

3.65 m

(b) Change 2.7 kg into grams.

(Total for Question 1 is 2 marks)

4 Ken buys some fruit.

He buys apples, bananas, peaches and oranges. Ken buys

4 apples weighing 125 g each 2 bananas weighing 170 g each weighing 135 g each

Each orange has a weight of 90 g.

The fruit has a total weight of 1.785 kg.

(a) Work out how many oranges Ken buys.

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.....

Ken buys some fruit.

He buys apples, bananas, peaches and oranges. Ken buys

> 500g 4 apples ★ weighing 125 g each 2 bananas weighing 170 g each 340 a weighing 135 g each 3 peaches 4059 12459

Each orange has a weight of 90 g.

The fruit has a total weight of 1.785 kg.

(a) Work out how many oranges Ken buys.

$$()$$
 1785g - 1245
= 540g = oranges

ranges

(3)

- 21 Renee buys 5 kg of sweets to sell.
- 02 She pays £10 for the sweets.
- Renee puts all the sweets into bags. She puts 250 g of sweets into each bag. She sells each bag of sweets for 65p.

Renee sells all the bags of sweets.

Work out her percentage profit.

.....%

(Total for Question 21 is 4 marks)

Renee buys 5 kg of sweets to sell. She pays £10 for the sweets.

Renee puts all the sweets into bags. She puts 250 g of sweets into each bag. She sells each bag of sweets for 65p.

Renee sells all the bags of sweets.

Work out her percentage profit.

dift = 3 original = 10

50/_%

(Total for Question is

is 4 marks)

5 (a) Change 35 cm to mm.

Rι

(b) Change 7700 millilitres to litres.

R3

(c) Change 0.32 kilograms to grams.

R2

		Video Created by W Neill	
3	(a) Change 4560 g into kg.		
	R2		21
		(1)	kg
	(b) Change 7.3 m into mm.		
	R1		
		(1)	mm
_		(Total for Question 3 is 2 marks)	

(a) Change 4560 g into kg.

R2

(b) Change 7.3 m into mm.

R1

(Total for Question 3 is 2 marks)

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7 Shaun is 1.88 m tall.

Pavid is 6 cm taller than Shaun.

How tall is David?

(Total for Question 7 is 2 marks)

- 7 Shaun is 1.88 m tall.
- Pavid is 6 cm taller than Shaun.

How tall is David?

Shaun 1.88m

188cm

Grand

O.06m

Grand

Gran

AQA

Which unit is most suitable for measuring the length of a tennis court?

Circle your answer.

[1 mark]

kilometres metres centimetres millimetres

1 Which unit is most suitable for measuring the length of a tennis court?

Q\ Circle your answer.

[1 mark]

kilometres metres centimetres millimetres

What is a **litre** a unit of? Circle your answer.

R3 [1 mark]

area density mass capacity

What is a **litre** a unit of? Circle your answer.

R3 [1 mark]

area density mass capacity

18 Circle the ratio which is the same as the scale 1 cm represents 1 km

[1 mark]

R1 R13

1:100 1:1000 1:10000 1:100000

18 Circle the ratio which is the same as the scale

1 cm represents 1 km

[1 mark]

R1 R13

1:100

1:1000

1:10 000

1:100 000

(00cm = 1m

1km = 1000m

1000m = 100000 cm

Video created	by	W	Neil	
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The height of Zak is 1.86 metres.

The height of Fred is 1.6 metres.

R1

N33 Write the height of Zak as a fraction of the height of Fred.

Give your answer in its simplest form.

[3 marks]

Answer			

25 The height of Zak is 1.86 metres.

The height of Fred is 1.6 metres.

R1

N33 Write the height of Zak as a fraction of the height of Fred.

Give your answer in its simplest form.

[3 marks]

 $\frac{2ak}{Fred} = \frac{1.86}{1.6} = \frac{186}{160}$

= 93

Answer

4 Circle the shortest length.

[1 mark]

R1

1200 cm

0.13 km

110 m

140 000 mm

100cm = 1m

4 Circle the shortest length.

R1

M

1000m = 1km

[1 mark]

10mm = (cm

1200 cm

<u>0.13</u> km

110 m

140 000 mm

12m

130m

110m

14000 cm

1 Add 8 mm to 7 cm

Circle your answer.

R1

[1 mark]

150 mm 1.5 cm 7.8 cm 708 mm

1 Add 8 mm to 7 cm
Circle your answer.

[1 mark]

150 mm

1.5 cm

7.8 cm

708 mm

7 0 cm

78 mm

7.8 cm