

Metric Conversion - Worksheet

Skill

Group A - Metric units of mass

Convert the metric units below:

- | | | |
|------------------------|------------------------|----------------------------|
| 1) $2kg$ to g | 2) $3000g$ to kg | 3) 3 tonnes to kg |
| 4) $16000kg$ to tonnes | 5) 5 tonnes to g | 6) 8 000 000 g to tonnes |
| 7) 5.85 tonnes to kg | 8) 97.8 kg to g | 9) 700 g to kg |
| 10) $5kg$ to tonnes | 11) 75.2 tonnes to g | 12) 0.7 g to kg |
-

Group B - Metric units of length

Convert the metric units below:

- | | | |
|------------------------|------------------------|-------------------------|
| 1) $5km$ to m | 2) 600 cm to m | 3) 9 m to cm |
| 4) 17 cm to mm | 5) 1800 mm to cm | 6) 600 m to km |
| 7) 75 km to cm | 8) 3 m to mm | 9) 2.87 m to mm |
| 10) 95000 cm to km | 11) 0.085 km to mm | 12) 9875.2 mm to km |
-

Group C - Metric units of volume

Convert the metric units below:

- | | | |
|-----------------------|----------------------|------------------------|
| 1) 5000 ml to l | 2) 9 l to ml | 3) 32 cl to ml |
| 4) 1400 ml to cl | 5) 83 l to cl | 6) 70 cl to l |
| 7) 8.45 l to ml | 8) 16700 ml to l | 9) 53.2 l to ml |
| 10) 48.25 l to cl | 11) 9.8 ml to l | 12) 987.52 ml to l |

Metric Conversion - Worksheet

Applied

- 1)** **(a)** A 50p coin has a weight of 9g. Find the total mass of £60 worth of 50p coins. Give your answer in grams.

 (b) Convert your answer from part (a) to kilograms.
- 2)** Maggy and Lana are sisters. Maggy is 1.8m tall and Lana is 9cm taller. What is the sum of their heights?
- 3)** **(a)** There is a 5l jug of punch at a party. Each of the 9 adults invited to the party drink 300ml of the punch. How many litres of punch are remaining?

 (b) 2 more guests join the party and drink 24cl of punch each. How many litres of punch are left now?
- 4)** **(a)** Andy is baking a cake and needs 400g of sugar to make 12 cupcakes. He has 3.2kg of sugar. What is the maximum number of cupcakes he can make with that amount of sugar?

 (b) Andy has 1.5l of milk in his fridge. To make 12 cupcakes Andy needs 200ml of milk. What is the maximum number of cupcakes Andy can make with 3.2kg of sugar and 1.5l of milk?

Metric Conversion - Exam Questions

- 1) (a) Write $4.37m$ in centimetres.

.....
(2)

- (b) Write $20ml$ in litres.

.....
(2)
(4 marks)

-
- 2) (a) A jug of juice is made from $300ml$ of concentrate mixed with $500ml$ of water. If $7l$ of juice is desired, how much of each ingredient is required?

.....
(3)

- (b) Write the ratio of water:juice in the form $1:n$.

.....
(2)
(5 marks)

-
- 3) (a) Sally and Greta are sisters. Sally weighs $48kg$ and Greta is $1900g$ lighter. How much does Greta weigh?

.....
(2)

- (b) What is their combined weight?

.....
(2)
(4 marks)

Metric Conversion - Exam Questions

- 4) (a)** Sharma runs 950m everyday.
Work out how far Sharma runs in a week.
Express your answer in kilometres.

.....
(2)

- (b)** Work out how far Sharma runs in a year.
Express your answer in kilometres.

.....
(2)
(4 marks)

Metric Conversion - Answers

	Question	Answer
	Skill Questions	
Group A	Convert the metric units below: 1) $2kg$ to g 2) $3000g$ to kg 3) 3 tonnes to kg 4) $16000kg$ to tonnes 5) 5 tonnes to g 6) $8\,000\,000g$ to tonnes 7) 5.85 tonnes to kg 8) $97.8\,kg$ to g 9) $700g$ to kg 10) $5kg$ to tonnes 11) 75.2 tonnes to g 12) $0.7g$ to kg	1) $2000g$ 2) $3kg$ 3) $3000kg$ 4) 16 tonnes 5) $5\,000\,000g$ 6) 8 tonnes 7) $5850kg$ 8) $97800g$ 9) $0.7kg$ 10) 0.005 tonnes 11) $75\,200\,000g$ 12) $0.0007kg$
Group B	Convert the metric units below: 1) $5km$ to m 2) $600cm$ to m 3) $9m$ to cm 4) $17cm$ to mm 5) $1800mm$ to cm 6) $600m$ to km 7) $75km$ to cm 8) $3m$ to mm 9) $2.87m$ to mm 10) $95000cm$ to km 11) $0.085km$ to mm 12) $9875.2mm$ to km	1) $5000m$ 2) $6m$ 3) $900cm$ 4) $170mm$ 5) $180cm$ 6) $0.6km$ 7) $7\,500\,000cm$ 8) $3000mm$ 9) $2870mm$ 10) $0.95km$ 11) $85\,000mm$ 12) $0.0098752km$

Metric Conversion - Answers

Group C	<p>Work out:</p> <p>1) 5000ml to l</p> <p>2) 9l to ml</p> <p>3) 32cl to ml</p> <p>4) 1400ml to cl</p> <p>5) 83l to cl</p> <p>6) 70cl to l</p> <p>7) 8.45l to ml</p> <p>8) 16700ml to l</p> <p>9) 53.2l to ml</p> <p>10) 48.25l to cl</p> <p>11) 9.8ml to l</p> <p>12) 987.52ml to l</p>	<p>1) 5l</p> <p>2) 9000ml</p> <p>3) 320ml</p> <p>4) 140cl</p> <p>5) 8300cl</p> <p>6) 0.7l</p> <p>7) 8450ml</p> <p>8) 16.7l</p> <p>9) 53 200ml</p> <p>10) 4825cl</p> <p>11) 0.0098l</p> <p>12) 0.98752l</p>
---------	---	--

Metric Conversion - Answers

	Question	Answer
	Applied Questions	
1)	a) A 50p coin has a weight of 9g. Find the total mass of £60 worth of 50p coins in grams. b) Convert your answer from part (a) into kilograms.	a) 1080g b) 1.08kg
2)	Maggy and Lana are sisters. Maggy is 1.8m tall and Lana is 9cm taller. What is the sum of their heights?	369cm or 3.69m
3)	a) There is a 5l jug of punch at the party. Each of the 9 adults invited to the party drink 300ml. How many litres of punch are remaining? b) 2 more guests join the party and drink 24cl of punch each. How many litres of punch are left now?	a) 2.3l of punch is remaining b) 1.82l of punch is remaining
4)	a) Andy is baking a cake and needs 400g of sugar to make 12 cupcakes. He has 3.2kg of sugar. What is the maximum number of cupcakes he can make with that amount of sugar? b) Andy has 1.5l of milk in his fridge. To make 12 cupcakes Andy needs 200ml of milk. What is the maximum number of cupcakes Andy can make with 3.2kg of sugar and 1.5l of milk?	a) 96 cupcakes b) 90 cupcakes

Metric Conversion - Mark Scheme

	Question	Answer	
	Exam Questions		
1) (a)	Write $4.37m$ in centimetres.	(a) 4.37×100 $437cm$	(1) (1)
(b)	Write $20ml$ in litres.	(b) $20 \div 1000$ $0.02l$	(1) (1)
2) (a)	A jug of juice is made from $300ml$ of concentrate mixed with $500ml$ of water. If $7l$ of juice is desired, how much of each ingredient is required?	(a) $7000 \div 800 = 8.75$ $300 \times 8.75 = 2625 ml$ of concentrate $500 \times 8.75 = 4375 ml$ of water	(1) (1) (1)
(b)	Write the ratio of water:juice in the form $1:n$.	(b) $5:3$ $1:0.6$	(1) (1)
3) (a)	Sally and Greta are sisters. Sally weighs $48kg$ and Greta is $1900g$ lighter. How much does Greta weigh?	(a) $48\,000g$ or $1.9kg$ seen $48000 - 1900 =$ $46100g$ or $46.1kg$ seen	(1) (1)
(b)	What is their combined weight?	(b) $48 + 46.1$ $94.1kg$	(1) (1)
4) (a)	Sharma runs $950m$ everyday. Work out how far Sharma runs in a week. Express your answer in kilometres.	(a) $950 \times 7 = 6650m$ $6650 \div 1000 = 6.65km$	(1) (1)
(b)	Work out how far Sharma runs in a year. Express your answer in kilometres.	(b) 950×365 $346.75km$	(1) (1)

Do you have KS4 students who need additional support in maths?

Our specialist tutors will help them develop the skills they need to succeed at GCSE in weekly one to one online revision lessons. Trusted by secondary schools across the UK.

Visit thirdspacelearning.com to find out more.