

Metric Units

Videos 349a, 349b, 349c on Corbettmaths

Workout

Question 1: Convert the following lengths into centimetres (cm)

- (a) 4 m 400 cm (b) 9 m 900 cm (c) 12 m 1200 cm (d) 59 m 5900 cm
 (e) 750 m 75000 cm (f) 105 m 10500 cm (g) 2.5 m 250 cm (h) 8.2 m 820 cm
 (i) 1.53 m 153 cm (j) 0.6 m 60 cm (k) 0.38 m 38 cm (l) 0.03 m 3 cm

Question 2: Convert the following lengths into metres (m)

- (a) 300 cm 3 m (b) 700 cm 7 m (c) 900 cm 9 m (d) 1400 cm 14 m
 (e) 250 cm 2.5 m (f) 740 cm 7.4 m (g) 1000 cm 10 m (h) 348 cm 3.48 m
 (i) 80 cm 0.8 m (j) 70 cm 0.7 m (k) 53 cm 0.53 m (l) 2 cm 0.02 m

Question 3: Convert the following lengths into centimetres (cm)

- (a) 60 mm 6 cm (b) 30 mm 3 cm (c) 65 mm 6.5 cm (d) 87 mm 8.7 cm
 (e) 280 mm 28 cm (f) 812 mm 81.2 cm (g) 2030 mm 203 cm (h) 9000 mm 900 cm
 (i) 7 mm 0.7 cm (j) 4 mm 0.4 cm (k) 1.3 mm 0.13 cm (l) 0.6 mm 0.06 cm

Question 4: Convert the following lengths into millimetres (mm)

- (a) 2 cm 20 mm (b) 6 cm 60 mm (c) 4.5 cm 45 mm (d) 9.2 cm 92 mm
 (e) 13 cm 130 mm (f) 78 cm 780 mm (g) 124 cm 1240 mm (h) 520 cm 5200 mm
 (i) 0.5 cm 5 mm (j) 0.2 cm 2 mm (k) 0.8 cm 8 mm (l) 0.16 cm 1.6 mm

Question 5: Convert the following lengths into metres (m)

- (a) 4 km 4000 m (b) 9 km 9000 m (c) 13 km 13000 m (d) 28 km 28000 m
 (e) 125 km 125000 m (f) 300 km 300000 m (g) 7000 km 7000000 m (h) 7200 km 7200000 m
 (i) 0.5 km 500 m (j) 0.8 km 800 m (k) 1.2 km 1200 m (l) 2.6 km 2600 m
 (m) 0.07 km 70 m (n) 0.02 km 20 m (o) 0.006 km 6 m (p) 1.008 km 1008 m

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Question 6: Convert the following lengths into kilometres (km)

- (a) 6000 m 6 km (b) 2000 m 2 km (c) 5500 m 5.5 km (d) 6400 m 6.4 km
 (e) 800 m 0.8 km (f) 600 m 0.6 km (g) 450 m 0.45 km (h) 125 m 0.125 km
 (i) 70 m 0.07 km (j) 90 m 0.09 km (k) 35 m 0.035 km (l) 4 m 0.004 km
 (m) 90000 m 90 km (n) 40000 m 40 km (o) ~~340000~~ m 340 km (p) 90530 m 90.53 km

Question 7: Convert the following lengths

- (a) 2 m into mm 2000 mm (b) 8 m into mm 8000 mm (c) 6500 mm into m 6.5 m
 (d) 9000 mm into m 9 m (e) 48000 cm into km 0.48 km (f) ~~9250000~~ cm into km 92.5 km
 (g) 780 mm into m 0.78 m (h) 4 km into cm 400000 cm (i) 1 km into mm 1000000 mm
 (j) ~~25000000~~ mm into km 25 km (k) 0.5 km into cm 50000 cm (l) 0.023 km into mm 23000 mm

Question 8: Convert the following into grams

- (a) 2 kg 2000 g (b) 7 kg 7000 g (c) 19 kg 19000 g (d) 20 kg 20000 g
 (e) 1.5 kg 1500 g (f) 2.4 kg 2400 g (g) 4.7 kg 4700 g (h) 0.5 kg 500 g
 (i) 0.8 kg 800 g (j) 0.16 kg 160 g (k) 0.03 kg 30 g (l) 0.008 kg 8 g

Question 9: Convert the following into kilograms

- (a) 7000 g 7 kg (b) 3000 g 3 kg (c) 12000 g 12 kg (d) 40000 g 40 kg
 (e) 3945 g 3.945 kg (f) 600 g 0.6 kg (g) 850 g 0.85 kg (h) 735 g 0.735 kg
 (i) 60 g 0.06 kg (j) 75 g 0.075 kg (k) 2 g 0.002 kg (l) 78.1 g 0.0781 kg

Question 10: Convert the following into kilograms

- (a) 5 tonnes 5000 kg (b) 8 tonnes 8000 kg (c) 15 tonnes 15000 kg (d) 0.6 tonnes 600 kg
 (e) 1.6 tonnes 1600 kg (f) 9.25 tonnes 9250 kg (g) 0.3 tonnes 300 kg (h) 0.06 tonnes 60 kg

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Question 11: Convert the following into millilitres

- (a) 2 litres ^{2000ml} (b) 6 litres ^{6000ml} (c) 24 litres ^{24000ml} (d) 1.8 litres ^{1800ml}
 (e) 0.6 litres ^{600ml} (f) 0.125 litres ^{125ml} (g) 0.07 litres ^{70ml} (h) 2.05 litres ^{2050ml}

Question 12: Convert the following into litres

- (a) 8000 ml ^{8L} (b) 3000 ml ^{3L} (c) 76000 ml ^{76L} (d) 750 ml ^{0.75L}
 (e) 540 ml ^{0.54L} (f) 121 ml ^{0.121L} (g) 88 ml ^{0.088L} (h) 1035 ml ^{1.035L}

Apply

Question 1: Jack is 1.36 metres tall.
 His friend Ian is 5 centimetres taller than Jack.
 What height is Ian? Give your answer in metres.

1.41 m

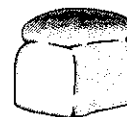


Question 2: Mary runs 600m every day.
 Work out how far Mary runs in one week.
 Give your answer in kilometres.

4.2 km

Question 3: Karl is baking a loaf of bread and needs 0.8 kg of flour.
 He has 72 grams of flour.
 How much more flour does Karl need?
 Give your answer in grams.

728g



Question 4: James and Jack buy a 3 litre carton of orange juice.
 Each boy drinks 650 ml of orange juice.
 How much orange juice is left?
 Give your answer in litres.

1.7 L

Question 5: Rebecca has two dogs, Lucky and Pepe.
 Lucky weighs 5.4 kilograms.
 Pepe is 800 grams lighter than Lucky.
 Work out how much Pepe weighs.
 State your units.

4.6 kg



Question 6: A 2p coin has a mass of 7 grams.
 Find the total mass of £80 worth of 2p coins.
 Give your answer in kilograms.

$8000 \div 2 = 4000 \text{ coins}$
 $4000 \times 7 = 28000g$
28 kg