

CONVERTING UNITS – PRACTICE QUESTIONS
CALCULATOR ALLOWED



1.

Convert into centimetres:

- | | |
|----------------------|----------------------|
| (a) 3 m | (b) 9 m |
| (c) 7.5 m | (d) 11.3 m |
| (e) 9.17 m | (f) 12.25 m |
| (g) 13.06 m | (h) 25.7 m |
| (i) 0.88 m | (j) 0.19 m |
| (k) $2\frac{1}{2}$ m | (l) $4\frac{3}{4}$ m |

2.

Convert into metres:

- | | |
|---------------|--------------|
| (a) 500 cm | (b) 800 cm |
| (c) 340 cm | (d) 990 cm |
| (e) 765 cm | (f) 611 cm |
| (g) 75 cm | (h) 98 cm |
| (i) 1,200 cm | (j) 7,250 cm |
| (k) 10,880 cm | (l) 15.5 cm |

3.

Convert into centimetres:

- | | |
|---------------|--------------|
| (a) 70 mm | (b) 130 mm |
| (c) 14 mm | (d) 82 mm |
| (e) 210 mm | (f) 107 mm |
| (g) 91 mm | (h) 809 mm |
| (i) 9 mm | (j) 2,345 mm |
| (k) 14,100 mm | (l) 6,659 mm |

4.

Convert into millimetres:

(a) 13 cm

(b) 72 cm

(c) 55.5 cm

(d) 0.6 cm

(e) 134 cm

(f) 233.9 cm

(g) 62.6 cm

(h) 1.9 cm

(i) 111.1 cm

(j) 1,000 cm

(k) 2.25 cm

(l) 10.88 cm

5.

Convert into kilometres:

(a) 9,000 m

(b) 32,000 m

(c) 6,600 m

(d) 5,490 m

(e) 780 m

(f) 1,015 m

(g) 408 m

(h) 919 m

(i) 2,565 m

(j) 10,090 m

(k) 12 m

(l) 22,252 m

6.

Convert into metres:

(a) 2 km

(b) 18 km

(c) 6.5 km

(d) 11.1 km

(e) 9.25 km

(f) 20.19 km

(g) 0.8 km

(h) 0.03 km

(i) 1.895 km

(j) 0.133 km

(k) $3\frac{1}{5}$ km

(l) $7\frac{3}{8}$ km

7.

Convert into litres:

- | | |
|--------------|----------------|
| (a) 7,000 ml | (b) 19,000 ml |
| (c) 6,700 ml | (d) 15,800 ml |
| (e) 1,250 ml | (f) 3,360 ml |
| (g) 9,199 ml | (h) 900 ml |
| (i) 475 ml | (j) 2,225 ml |
| (k) 56 ml | (l) 101,500 ml |

8.

Convert into millilitres:

- | | |
|----------------------------|---------------------------|
| (a) 90 litres | (b) 7.2 litres |
| (c) 44.1 litres | (d) 8.88 litres |
| (e) 9.04 litres | (f) 0.7 litres |
| (g) 1.455 litres | (h) 32.55 litres |
| (i) 0.02 litres | (j) 0.336 litres |
| (k) $9\frac{9}{10}$ litres | (l) $3\frac{2}{5}$ litres |

9.

Convert into kilograms:

- | | |
|-------------|--------------|
| (a) 5,000 g | (b) 95,000 g |
| (c) 6,500 g | (d) 12,200 g |
| (e) 750 g | (f) 895 g |
| (g) 1,444 g | (h) 2,468 g |
| (i) 80 g | (j) 15,830 g |
| (k) 9,080 g | (l) 350.4 g |

10.

Convert into grams:

- | | |
|-----------------------|--------------------------|
| (a) 7 kg | (b) 125 kg |
| (c) 10.5 kg | (d) 6.9 kg |
| (e) 8.15 kg | (f) 10.66 kg |
| (g) 0.41 kg | (h) 1.657 kg |
| (i) $7\frac{3}{8}$ kg | (j) 14.408 kg |
| (k) 1,000 kg | (l) $15\frac{19}{20}$ kg |

11.

Convert into minutes:

- | | |
|----------------------------|--------------------------|
| (a) 2 hours | (b) 5 hours |
| (c) 1.5 hours | (d) 8.25 hours |
| (e) 0.5 hours | (f) 3.3 hours |
| (g) 11.2 hours | (h) $\frac{7}{10}$ hours |
| (i) $3\frac{1}{3}$ hours | (j) 2.65 hours |
| (k) $4\frac{11}{20}$ hours | (l) 19.95 hours |

12.

Convert into hours:

- | | |
|-----------------|--------------------|
| (a) 180 minutes | (b) 45 minutes |
| (c) 36 minutes | (d) 426 minutes |
| (e) 570 minutes | (f) 1,005 minutes |
| (g) 258 minutes | (h) 9 minutes |
| (i) 84 minutes | (j) 18,000 minutes |
| (k) 438 minutes | (l) 669 minutes |

13.

Convert into minutes:

- | | |
|-------------------|--------------------|
| (a) 300 seconds | (b) 480 seconds |
| (c) 570 seconds | (d) 162 seconds |
| (e) 285 seconds | (f) 24 seconds |
| (g) 1,215 seconds | (h) 774 seconds |
| (i) 513 seconds | (j) 54,000 seconds |
| (k) 1,482 seconds | (l) 74.4 seconds |

14.

Convert into seconds:

- | | |
|-----------------------------|-----------------------------|
| (a) 9 minutes | (b) 13 minutes |
| (c) $4\frac{1}{2}$ minutes | (d) 11.1 minutes |
| (e) $8\frac{2}{3}$ minutes | (f) 20.25 minutes |
| (g) 3.45 minutes | (h) $16\frac{4}{5}$ minutes |
| (i) $6\frac{3}{20}$ minutes | (j) 1,830 minutes |
| (k) $\frac{13}{30}$ minutes | (l) 3.48 minutes |

15.

(a) Convert 1,500 metres into kilometres.

(b) Convert 7.7 litres into millilitres.

(c) Convert 22 millimetres into centimetres.

(d) Convert 72 seconds into minutes.

(e) Convert 3.6 metres into centimetres.

(f) Convert $5\frac{1}{2}$ hours into minutes.

(g) Convert 520 grams into kilograms.

(h) Convert 650 millilitres into litres.

(i) Convert $3\frac{1}{3}$ minutes into seconds.

(j) Convert $11\frac{3}{5}$ kilometres into metres.

(k) Convert 0.36 litres into millilitres.

(l) Convert 108 minutes into hours.

(m) Convert 7.65 kilograms into grams.

(n) Convert 55,500 kilometres into metres.

(o) Convert $6\frac{8}{15}$ hours into minutes.

(p) Convert 569.7 grams into kilograms.

16.

(a) Convert 8,000 millimetres into metres.

(b) Convert 1.25 metres into millimetres.

(c) Convert 2 hours into seconds.

(d) Convert 12,600 seconds into hours.

(e) Convert $9\frac{1}{8}$ metres into millimetres.

(f) Convert 900 seconds into hours.

(g) Convert 19,950 millimetres into metres.

(h) Convert $6\frac{5}{6}$ hours into seconds.

(i) Convert $1\frac{3}{4}$ metres into millimetres.

(j) Convert 30,420 seconds into hours.

(k) Convert $\frac{13}{30}$ hours into seconds.

(l) Convert 0.18 metres into millimetres.

17.

The women's shot put world record is 22.63 metres.

The men's world record is 49 centimetres further than the women's world record.

Find the men's shot put world record, in metres.

18.

Agnes is hosting a party.

She has made 18 litres of fruit punch.

She is going to serve the punch in plastic cups of capacity 300 millilitres.

How many plastic cups can Agnes fill?

19.

Apples have a mass of 124 g.

Mangos have a mass of 182 g.

Watermelons have a mass of 8.85 kg.

Find the total mass of 12 apples, 8 mangos and 3 watermelons, in kilograms.

20.

Brandon works in a toy factory, assembling toys.
It takes Brandon 16 seconds to assemble each toy.

How many toys can Brandon assemble in an hour?

21.

A piece of card has a thickness of 0.24 millimetres.

A piece of paper has a thickness of 0.11 millimetres.

Chelsea is going to make a stack of 5,000 pieces of card and 8,000 pieces of paper.

Work out the height of the stack, in metres.

22.

A baby is born every 48 seconds in England.

Use this fact to work out how many babies are born in England each day.

23.

Convert 5 metres per second into kilometres per hour.

24.

Convert 45 kilometres per hour into metres per second.

25.

Adele's car has a maximum speed of 126 kilometres per hour.

Bernadette's car has a maximum speed of 36 metres per second.

Who's car has the highest maximum speed?