

Metric Conversion (part 2)



Exercises

Learning Skills

Introduction:

To reinforce what was learnt in [part 1](#) of this topic we have included some exercises for you to try out. Answers can be found at the end of this document. Contact one of our Maths Advisers if you have any problems.

1. Convert the following

- | | | |
|------------------|-------------------|-------------------|
| 1.1. 7000m to km | 1.5. 1685kg to t | 1.9. 438mL to L |
| 1.2. 416cm to m | 1.6. 15000g to kg | 1.10. 14km to m |
| 1.3. 7.6L to mL | 1.7. 8.2mm to cm | 1.11. 25mm to m |
| 1.4. 3.63m to mm | 1.8. 0.85m to mm | 1.12. 64.2g to kg |

2. Evaluate the following

- 2.1. Convert 3.5 days to hours
- 2.2. convert 10.5 minutes to seconds
- 2.3. add together 36 minutes and 45 minutes
- 2.4. add together 2 hours and 15 minutes and 8 hours and 55 minutes.
- 2.5. work out the time between 9:15pm and 7:30am the next day
- 2.6. work out the time between 3:40am Tuesday and 7:50am Thursday
- 2.7. work out the time between 10:35pm Saturday and 7:10am Wednesday

3. Mixed problems

- 3.1. A boy measures a piece of wood. He writes it as 2 m 52 cm. How should this be written in centimetres? How should this be written in millimetres?
- 3.2. A swimmer swims 28 laps of a 50 metre pool. How many metres does he swim? How many kilometres is this?
- 3.3. A lift in an office block can carry a maximum load of 1 000 kg . If the average mass of people using the lift is 65 kg, what is the maximum number of people that can be carried in safety?
- 3.4. Ribbon is 60 cents per metre. How much would 7.5 metres cost?

4. Answers

- | | | |
|-------------|-------------|----------------|
| 1.1. 7km | 1.5. 1.685t | 1.9. 0.438L |
| 1.2. 4.16m | 1.6. 15kg | 1.10. 1400m |
| 1.3. 7600mL | 1.7. 0.82cm | 1.11. 0.025m |
| 1.4. 3630mm | 1.8. 850mm | 1.12. 0.0642kg |

- 2.1. 3 lots of 24 + 12 = 84 hours
- 2.2. 10 lots of 60 + 30 = 630 seconds
- 2.3. 36 + 45 = 81 minutes = 1 hour and 21 minutes
- 2.4. 15 + 55 minutes = 70 minutes = 1 hour and 10 minutes
total time = 1 h and 10 min + 2 h + 8 h = 11 h and 10 min
- 2.5. time between 9:15pm and 10pm = 45 min
time between 10pm and 7:30 am = 9 h and 30 min
45 min + 30 min = 75 min = 1 h and 15 min
total time = 1 h and 15 min + 9 h = 10 h and 15 min
work out the time between 3:40am Tuesday and 7:50am Thursday
- 2.6. time between 3:40am and 4am = 20 min
4am tues and 4am thurs = 48 h
4am thurs and 7:50am thurs = 3 h and 50 min
50 min + 20 min = 70 min = 1 h and 10 min
total time = 1 h and 10 min + 48 h + 3 h = 52 h and 10 min
- 2.7. time between 10:35pm to 11pm = 25 min
11pm sat. to 11pm tues. = 3 days = 72 h
11pm tues. to 7:10am wed. = 8 h and 10 min
25 min + 10 min = 35 min
total time = 35 min + 72 h + 8 h = 80 h and 35 min
- 3.1. 252cm, 2520mm
- 3.2. 1400m, 1.4km
- 3.3. $1000/65 = 15.38$, and round down to 15 because 16 people would put you over the safety limit.
- 3.4. \$4.50

5. For more information

Visit our Learning Skills website at <http://www.csu.edu.au/division/studserv/math/index.htm>

Part 1 of this document can be found at <http://www.csu.edu.au/division/studserv/math/teachered.htm>

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