

## Time Unit Conversion - Worksheet

### Skill

#### Group A - Converting between hours and minutes

Convert the units of time below:

- |                                   |                                 |                                     |
|-----------------------------------|---------------------------------|-------------------------------------|
| 1) 1 hour to minutes              | 2) 5 hours to minutes           | 3) 120 minutes to hours             |
| 4) 420 minutes to hours           | 5) 2.5 hours to minutes         | 6) 5.5 hours to minutes             |
| 7) 1 hour 30 minutes to hours     | 8) 34 hours to minutes          | 9) 460 minutes to hours and minutes |
| 10) 3 hours 45 minutes to minutes | 11) 9 hours 45 minutes to hours | 12) 24 hours 20 minutes to hours    |
- 

#### Group B - Converting between hours, minutes, and seconds

Convert the units of time below:

- |                             |                              |                                  |
|-----------------------------|------------------------------|----------------------------------|
| 1) 30 minutes to seconds    | 2) 120 seconds to minutes    | 3) 500 minutes to seconds        |
| 4) 24000 seconds to minutes | 5) 2 hours to seconds        | 6) 1 hour 30 minutes to seconds  |
| 7) 350 minutes to seconds   | 8) 60 000 seconds to minutes | 9) 7 hours 40 minutes to seconds |
| 10) 75 seconds to minutes   | 11) 9.5 hours to seconds     | 12) 24.25 hours to seconds       |
- 

#### Group C - Converting between days, hours, seconds and minutes

Convert the units of time below:

- |                           |                                |                              |
|---------------------------|--------------------------------|------------------------------|
| 1) 2 days to hours        | 2) 9 days to hours             | 3) 96 hours to days          |
| 4) 180 minutes to seconds | 5) 1 day to minutes            | 6) 5 days to minutes         |
| 7) 102 minutes to hours   | 8) 7 hours 48 minutes to hours | 9) 1 week to hours           |
| 10) 2 weeks to minutes    | 11) 132 minutes to hours       | 12) 216 000 seconds to hours |

## Time Unit Conversion - Worksheet

### Applied

- 1) (a)** Selina is asked to convert 102 mins into hours and mins.  
She says, "Because there are 60 mins in an hour she will just divide 260 minutes by 60 and the answer is approximately 1 hrs and 7 mins."  
  
Explain why she is incorrect.  
  
**(b)** What should the correct answer be for part (a)?
- 2) (a)** Sam and Evie go on a road trip. They travel 6.5 hrs to their first stop and from there 150 mins to their next stop. What is the total time taken for their journey in mins?  
  
**(b)** Express your answer for part (a) in terms of hours.
- 3)** How many seconds are there in a week?
- 4) (a)** The flight from Toronto to London is 6 hrs and 30 mins. Toronto is 5 hrs behind London. If a flight leaves Toronto at 8pm, what time will it reach London?  
  
**(b)** Convert 6 hrs and 30 mins into hours.

## Time Unit Conversion - Exam Questions

- 1) (a) Work out how many minutes there are in 5 hrs.

.....  
(2)

- (b) Work out how many seconds there are in 6 hrs.

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

- 
- 2) (a) Write 4 hrs 35 mins in minutes.

.....  
(2)

- (b) Write 105 mins in terms of hrs.

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

- 
- 3) Write 7.25 hrs in terms of mins.

.....  
(2 marks)

## Time Unit Conversion - Exam Questions

- 4) How many days is 528 hours?

.....  
**(2 marks)**

## Time Unit Conversion - Answers

	Question	Answer
	Skill Questions	
Group A	Convert the units of time below: <b>1)</b> 1 hour to minutes <b>2)</b> 5 hours to minutes <b>3)</b> 120 minutes to hours <b>4)</b> 420 minutes to hours <b>5)</b> 2.5 hours to minutes <b>6)</b> 5.5 hours to minutes <b>7)</b> 1 hour 30 minutes to hours <b>8)</b> 34 hours to minutes <b>9)</b> 460 minutes to hours and minutes <b>10)</b> 3 hours 45 minutes to minutes <b>11)</b> 9 hours 45 minutes to hours <b>12)</b> 24 hours 20 minutes to hours	<b>1)</b> 60 minutes <b>2)</b> 300 minutes <b>3)</b> 2 hours <b>4)</b> 7 hours <b>5)</b> 150 minutes <b>6)</b> 330 minutes <b>7)</b> 1.5 hours <b>8)</b> 2 040 minutes <b>9)</b> 7 hours and 40 minutes <b>10)</b> 225 minutes <b>11)</b> 9.75 hours <b>12)</b> $24\frac{1}{3}$ hours
Group B	Convert the units of time below: <b>1)</b> 30 minutes to seconds <b>2)</b> 120 seconds to minutes <b>3)</b> 500 minutes to seconds <b>4)</b> 24000 seconds to minutes <b>5)</b> 2 hours to seconds <b>6)</b> 1 hour 30 minutes to seconds <b>7)</b> 350 minutes to seconds <b>8)</b> 60 000 seconds to minutes <b>9)</b> 7 hours 40 minutes to seconds <b>10)</b> 75 seconds to minutes <b>11)</b> 9.5 hours to seconds <b>12)</b> 24.25 hours to seconds	<b>1)</b> 1800 seconds <b>2)</b> 2 mins <b>3)</b> 30 000 seconds <b>4)</b> 400 mins <b>5)</b> 7 200 seconds <b>6)</b> 5 400 seconds <b>7)</b> 21 000 seconds <b>8)</b> 1000 mins <b>9)</b> 27 600 seconds <b>10)</b> 1.25 mins <b>11)</b> 34 200 seconds <b>12)</b> 87 300 seconds

## Time Unit Conversion - Answers

Group C	Convert the units of time below: <b>1)</b> 2 days to hours <b>2)</b> 9 days to hours <b>3)</b> 96 hours to days <b>4)</b> 180 minutes to seconds <b>5)</b> 1 day to minutes <b>6)</b> 5 days to minutes <b>7)</b> 102 minutes to hours <b>8)</b> 7 hours 48 minutes to hours <b>9)</b> 1 week to hours <b>10)</b> 2 weeks to minutes <b>11)</b> 132 minutes to hours <b>12)</b> 216 000 seconds to hours	<b>1)</b> 48 hours <b>2)</b> 216 hours <b>3)</b> 4 days <b>4)</b> 10 800 seconds <b>5)</b> 1 440 minutes <b>6)</b> 7 200 minutes <b>7)</b> 1.7 hours <b>8)</b> 7.8 hours <b>9)</b> 168 hours <b>10)</b> 20 160 minutes <b>11)</b> 2.2 hours <b>12)</b> 60 hours
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## Time Unit Conversion - Answers

	Question	Answer
	Applied Questions	
1)	<p><b>a)</b> Selina is asked to convert 102 mins into hrs and mins. She says, "Because there are 60 mins in an hour she will just divide 102 mins by 60 and the answer is approximately 1 hour and 7 mins."</p> <p>Explain why she is incorrect.</p> <p><b>b)</b> What should the correct answer be for part (a)?</p>	<p><b>a)</b> She is correct to divide by 60 but 0.7 of an hr does not equal 7 mins.</p> <p><b>b)</b> <math>102 \div 60 = 1.7</math>  <math>0.7 \times 60 = 42</math> mins  1 hr and 42 mins</p>
2)	<p><b>a)</b> Sam and Evie go on a road trip. They travel 6.5 hours to their first stop and from there 150 minutes to their next stop. What is the total time taken for their journey in minutes?</p> <p><b>b)</b> Express your answer for part (a) in terms of hours.</p>	<p><b>a)</b> 540 minutes</p> <p><b>b)</b> 9 hours</p>
3)	How many seconds are there in a week?	604 800 secs
4)	<p><b>a)</b> The flight from Toronto to London is 6 hrs and 30 mins. Toronto is 5 hrs behind London. If a flight leaves Toronto at 8pm, at what time will it reach London?</p> <p><b>b)</b> Convert 6 hrs and mins into hrs.</p>	<p><b>a)</b> 7.30 a.m. the following day</p> <p><b>b)</b> 6.5 hours</p>

## Time Unit Conversion - Mark Scheme

	Question	Answer	
	Exam Questions		
<b>1) (a)</b>	Work out how many minutes there are in 5 hrs.	<b>(a)</b> $60 \times 5$ 300 mins	<b>(1)</b> <b>(1)</b>
<b>(b)</b>	Work out how many seconds there are in 6 hrs.	<b>(b)</b> $6 \times 60 \times 60$ 21 600 secs	<b>(1)</b> <b>(1)</b>
<b>2) (a)</b>	Write 4 hrs and 35 mins in <i>mins</i> .	<b>(a)</b> $(4 \times 60) + 35$ 275 mins	<b>(1)</b> <b>(1)</b>
<b>(b)</b>	Write 105 mins in terms of hrs.	<b>(b)</b> $105 \div 60$ 1.75 hrs	<b>(1)</b> <b>(1)</b>
<b>3) (a)</b>	Write 7.25 hrs in terms of mins.	<b>(a)</b> $7.25 \times 60$ 435 mins	<b>(1)</b> <b>(1)</b>
<b>4) (a)</b>	How many days is 528 hrs?	<b>(a)</b> $528 \div 24$ 22 days	<b>(1)</b> <b>(1)</b>

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