

- LO: To convert between different units of measurements (related to time)

# Converting hours to minutes

$$1 \times 6 = 6$$

$$2 \times 6 = 12$$

$$3 \times 6 = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

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$$1 \times 60 = 60$$

$$2 \times 60 = 120$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

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$$1 \text{ hour} = 60 \text{ mins}$$

$$2 \text{ hours} = \underline{\quad} \text{ mins}$$

$$\underline{\quad} \text{ } = \underline{\quad}$$

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# Problem of the day

7

Write the missing numbers.

60 months =  years

72 hours =  days

84 days =  weeks

2 marks

# Problem of the day

*Answer*

7

Write the missing numbers.

60 months =

5

years

$$12 \times 5 = 60$$

72 hours =

3

days

$$1 \text{ day} = 24 \text{ hours}, 24 \times 3 = 72 \text{ hours}$$

84 days =

12

weeks

$$1 \text{ week} = 7 \text{ days}$$

$$84 \text{ divided by } 7 = 12$$

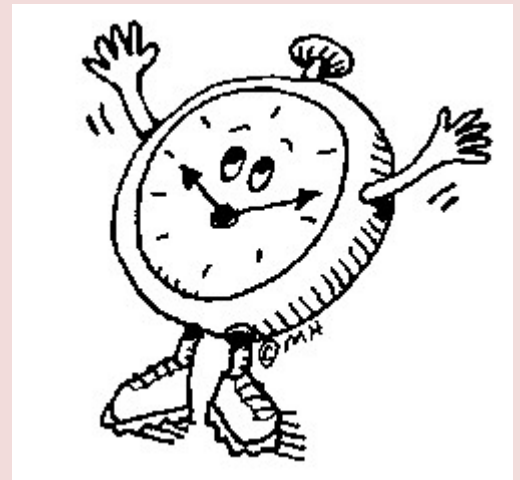
2 marks

# Converting hours to minutes

2 hours and 20 minutes:

$$2 \times 60 = 120$$

$$120 \text{ minutes} + 20 \text{ minutes} = 140 \text{ minutes}$$

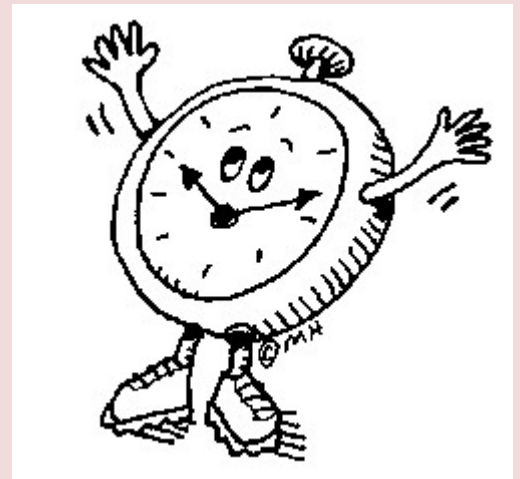


# Converting hours to minutes

3 hours and 10 minutes:

$$3 \times 60 = 180$$

$$180 \text{ minutes} + 10 \text{ minutes} = 190$$

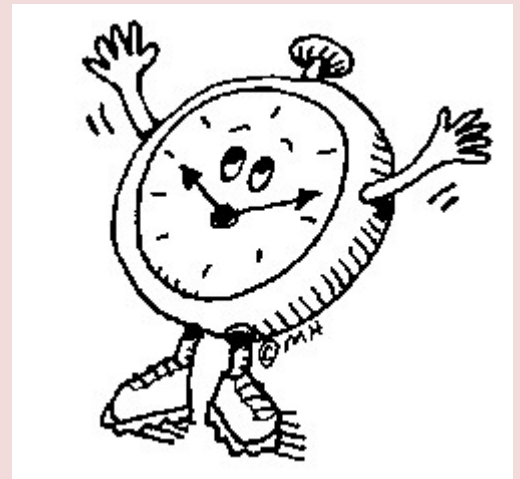


# Converting hours to minutes

7 hours and 40 minutes:

$$7 \times 60 = 420$$

$$420 \text{ minutes} + 40 \text{ minutes} = 460$$

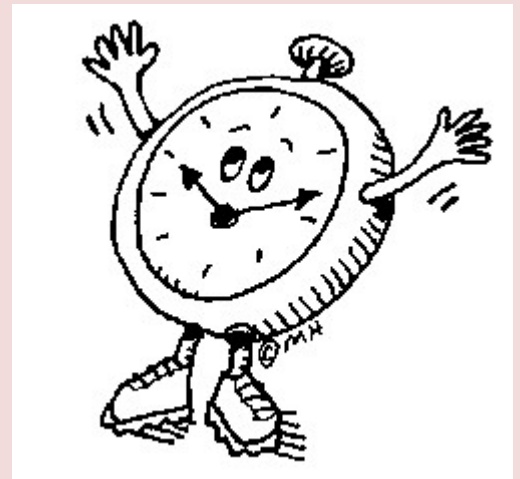


# Converting hours to minutes

5 hours and 50 minutes:

$$5 \times 60 = 300$$

$$300 \text{ minutes} + 50 \text{ minutes} = 350$$





Try these -Converting hours to  
minutes

- a) 2 hours and 20 minutes
- b) 9 hours and 10 minutes
- c) 7 hours and 30 minutes
- d) 2 hours and 35 minutes
- e) 3 hours and 25 minutes

# Try these -Converting hours to minutes

*Answer*

- a) 2 hours and 20 minutes=**140 minutes**
- b) 9 hours and 10 minutes=**550 minutes**
- c) 7 hours and 30 minutes=**450minutes**
- d) 2 hours and 35 minutes=**155 minutes**
- e) 3 hours and 25 minutes=**205 minutes**

# Minutes to hours.

Minutes	Calculation	Hours
120 min	$120 \div 60 =$	2 hours
300 min		
480 min		
180 min		
540 min		
100 min		
370 min		

# Minutes to hours.

*Answer*

Minutes	Calculation	Hours
120 min	$120 \div 60 =$	2 hours
300 min	$300 \div 60 =$	5 hours
480 min	$480 \div 60 =$	8 hours
180 min	$180 \div 60 =$	3 hours
540 min	$540 \div 60 =$	9 hours
100 min	$100 \div 60 =$	1 hour 40 minutes
370 min	$370 \div 60 =$	6 hours 10 minutes

Mikael went to Paris for 17 weeks and 3 days. How many days was he on vacation?



Mikael went to Paris for 17 weeks and 3 days. How many days was he on vacation?

*Answer*



1 week = 7 days

17 weeks =  $17 \times 7 = 119 + 3$  days

=122 days

Kim spent 3 hours and 15 minutes cleaning the house on Monday and then spent 7 hours and 13 minutes cleaning her kitchen on Tuesday. How many minutes has Kim spent tidying the kitchen and house altogether?





Kim spent 3 hours and 15 minutes cleaning the house on Monday and then spent 7 hours and 13 minutes cleaning her kitchen on Tuesday. How many minutes has Kim spent tidying the kitchen and house altogether?

**Answer**

1 hour = 60 minutes

Monday house    3 hours 15 minutes

$$=(3 \times 60) + 15 \text{ minutes} = 195 \text{ minutes}$$

Tuesday kitchen    7 hours 13 minutes

$$=(7 \times 60) + 13 = 433 \text{ minutes}$$

Total time spent tidying the kitchen and house =  $195 + 433 = \underline{\underline{628 \text{ minutes}}}$



## TASK

1 minute = 60 seconds, 1 hour = 60 minutes

1 day = 24 hours, 1 weeks = 7 days

1. Peggy has to take her medicine (one pill) every hour. How many pills will she need for 3 days?

2. Matthew was on vacation for 3 weeks. How many days was he on vacation?

3. Hunter ran in a track race on Tuesday. He finished in 620 seconds. How many minutes did it take him to run the race?

4) Hunter's brother, Nathan, is also a runner. He ran a 10 mile marathon in 9 hours and 35 minutes. How many minutes did he run? (Extension: How many miles per hour did he run?)

## TASK

1 minute = 60 seconds, 1 hour = 60 minutes

1 day = 24 hours, 1 week = 7 days

1. Peggy has to take her medicine (one pill) every hour. How many pills will she need for 3 days?  $3 \times 24 = 72$  hours

2. Matthew was on vacation for 3 weeks. How many days was he on vacation?  $3 \times 7 = 21$  days

3. Hunter ran in a track race on Tuesday. He finished in 620 seconds. How many minutes did it take him to run the race?

620 divided by 60

600 seconds = 10 minutes + 20 seconds  
= 10.2 minutes

4. Hunter's brother, Nathan, is also a runner. He ran a 10 mile marathon in 9 hours and 35 minutes. How many minutes did he run? (Extension: How many miles per hour did he run?)

$9 \times 60 = 540 + 35 = 575$  minutes

Extension    9.35 divided by 10 = 0.936 miles/hour