| Maths | Lesson 1 <br> LO: To convert between minutes and seconds. <br> What can you do in a minute? <br> How many times can you write your name in a minute? <br> How many star jumps can you do in a minute? How do we work out how many seconds in 2 minutes? <br> What calculation do you have to do? <br> So if 1 minute $=60$ seconds, 2 minutes would be 2 $\times 60=120$ seconds. <br> REMEMBER: You can work out $2 \times 6=12$ first and then make the answer 10 times bigger as you want to know the answer to $2 \times 60$. <br> Talk and Share <br> 3 minutes $=3 \times 60$ seconds $=180$ seconds <br> 4 minutes $=$ <br> 5 minutes $=$ <br> 10 minutes $=$ <br> E4E $2 \frac{1}{2}$ minutes $=$ <br> What if you wanted to convert seconds to minutes? <br> What calculation would you need to do? <br> E.g. 120 seconds $=2$ minutes <br> Work out $12 \div 6=2$ $120 \div 60=2$ <br> Activity |
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|  | Complete the questions and remember to show your working out. <br> 1) convert to seconds <br> 7 minutes <br> 9 minutes <br> 12 minutes <br> 20 minutes <br> 2) convert to minutes <br> 360 seconds <br> 480 seconds <br> 660 seconds <br> Answers <br> 1) convert to seconds <br> 7 minutes $=420$ seconds <br> 9 minutes $=540$ seconds <br> 12 minutes $=720$ seconds <br> 20 minutes $=1200$ seconds <br> 2) convert to minutes <br> 360 seconds $=6$ minutes <br> 480 seconds $=8$ minutes <br> 660 seconds $=11$ minutes <br> Lesson 2 <br> LO: To convert between hours and minutes. <br> What can you do in an hour? <br> How is this different to what you can do in a minute? <br> How do we work out how many minutes in 2 hours? <br> What calculation do you need to do? <br> What mental strategy do we use? |
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Remember - there are 60 minutes in 1 hour. Use your knowledge of the $6 \times$ tables and then multiply the answer by 10 so its ten times bigger.
$1 / 2$ hour $=30$ minutes
1 hour $=60$ minutes
$11 / 2$ hours $=90$ minutes
2 hours $=120$ minutes
$21 / 2=150$ minutes
10 hours = ?
12 hours = ?
20 hours = ?
24 hours = ?
10 hours $\times 60$ minutes $=600$ minutes
12 hours $\times 60$ minutes $=720$ minutes - you could work out $12 \times 6$ first and then multiply the answer by 10 .
20 hours $\times 60$ minutes $=2 \times 60=120 \times 10=$ 1200 minutes
24 hours $\times 60$ minutes $=24 \times 6$ (using grid method) $=144 \times 10=1440$ minutes.

You can use a number line to help you too: How many hours and minutes in 125 minutes?
125 minutes $=-2$ hours and 5 - minutes


Calculate the conversions using your times tables to help you and a number line if you need to.

Option 1
Option 2

|  | Convert to minutes <br> - 5 hours $=$ mins - 5 hours <br> - 6 hours <br> - 10 hours <br> Convert to minutes <br> - $61 / 2$ hours <br> - 12 hours <br> Convert to hours + mins <br> - 120 minutes = haurs <br> - 180 minutes <br> - 200 minutes $\qquad$ hours - 630 minutes and $\qquad$ mins <br> ANSWERS: <br> option I Convert to minutes <br> - 5 hours 300 mins <br> - 6 hours 360 mins <br> - 10 hours 600 mins <br> Convert to hours + mins <br> - 120 minutes 2 hours <br> - 180 minutes 3 hours <br> - 200 minutes 3 hours <br> Lesson 3 <br> LO: To understand how to solve problems involving conversion of time. <br> Recap: <br> 1 hour $=60$ minutes <br> 1 minute $=60$ seconds <br> 2 hours $=120$ minutes <br> 3 minutes $=180$ seconds <br> Think about how you would solve this word problem: <br> Rebecca goes walking for 2 hours 37 minutes. How many minutes has she been walking? |
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So you would work out how many minutes there are in 2 hours $=120$ minutes and then add the 37 minutes on.
$120+37=157$ minutes.
Rebecca has been walking for 157 minutes.

## Activity

Complete at least three questions. Make sure you do at least one of each colour.

Lesson 4
LO: To understand how to solve problems incolving time.


How many hours have passed between these two times? How many minutes? It was 12.30 and is now 3.30. That means 3 hours have passed. 3 hours $\times 60$ minutes $=180$ minutes.

If it is 4.15 now, what will the time be in 3 hours?
What about in $31 / 2$ hours? You can use a number line to help.


|  | Develop Learning <br> It is 7.30am. It takes I hour 45 minutes to walk to the shops. <br> What time will you arxive? <br> Activity <br> Solve the questions in your book. Make sure you draw a number line to help solve them. <br> Lesson 5 <br> LO: To understand how to solve problems involving time. <br> Look at these two questions - think about how they are the same/different. <br> It is 7.30am. It takes 1 hour 45 minutes to walk to the shops. What time will you arrive? <br> Ruby arrived at the library at 11.50 . She left the library at 14.05 . How long did she spend there? <br> I) <br> It is 7.30 am . It takes 1 hour 45 minutes to walk to the shops. What time will you arrive? <br> You arrive at 9.15 am . <br> 2) <br> Ruby arrived at the library at 11.50 . She left the library at 14.05. How long did she spend there? |
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|  | Ruby spent 2 hours and 15 minutes at the library. |
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| Activity |  |
| Answer the questions and make sure you use a |  |
| number line to help solve them. |  |

## Week 10 Maths Activities

