

Maths

Oak National Academy have released some lessons all about converting units of measure. Try to complete one of these sessions every day. <https://www.thenational.academy/online-classroom/year-5/maths>

Converting Units of Measure

10 Lessons

To convert between seconds, minutes and hours

Lesson 1

Start lesson

To solve problems involving converting between hours and minutes

Lesson 2

Start lesson

To convert between units of length

Lesson 3

Start lesson

To apply length conversions to problems

Lesson 4

Start lesson

To find the perimeter and convert units of measurements

Lesson 5

Start lesson

Extra for experts

Task 1 - Half Time!

When Spain played Belgium in the preliminary round of the men's hockey competition in the 2008 Olympics, the final score was 4-2.



4 2

What could the half time score have been?

Can you find all the possible half time scores?

How will you make sure you don't miss any out?

In the final of the men's hockey in the 2000 Olympics, the Netherlands played Korea. The final score was a draw; 3-3 and they had to take penalties.

3 3

Can you find all the possible half time scores for this match?

Task 2 - Rugby

Rugby returns to the Olympics after 92 years.

In Rugby, a team can score 3, 5 or 7 points for a penalty, unconverted try or converted try.

1. In what ways can the score 10 be made?
2. In what ways can the score 12 be made?
3. In what ways can the score 20 be made?



Task 3 - Tickets please!

The Olympics in 2016 are in Rio de Janeiro, in Brazil.

Here are the actual prices of some of the tickets. The exchange rate at the time of printing was about £1 to R\$5.1*. Calculate the cost of each ticket in sterling (British pounds), rounded to the nearest one pence.

*Find out the current exchange rate at xe.com.

Challenge

Give yourself a budget for tickets and choose the events you want to see. You could find the full ticket price list online.



Event	Full Price ticket (R\$)	Half Price Ticket (R\$)
Opening Ceremony	4 600	
Athletics	1 200	
Marathon	70	
Gymnastics	540	
Football	580	
Cycling	540	
Diving	900	
Equestrian – Eventing	420	
Closing Ceremony	2 100	

Task 4 - Usain Bolt

Usain Bolt can run 100m in 9.58secs. If he ran at the same speed, work out how long it would take him to run:

200m

400m

800m

1500m

10,000m

A marathon?(42.195m)



Task 5 - Beats per minute!

Watch the video about how to check your pulse <https://www.youtube.com/watch?v=tF9-jLZNM10&safe=active>.

Stand perfectly still and count how many times your heart beats in 1 minute. Then do each of these activities and see if your heart starts to beat faster. Make sure you rest in between each exercise to let your heart rate go back to normal.

Record each activity in a table or a graph. What do you notice happens to your heart rate when you exercise?

Which one raised your heart rate the most?

Can you put together an exercise regime that will get your heart racing?