

Maths Week 6

Message

Hi Year 6!

Here's another week of maths activities for you. The activities are all about **time** and there are some fairly straightforward questions with a few tricky ones thrown in!

You should do as much of this work as you can to ensure that you are still learning and keeping your brain active! Take your time with it; you don't have to do it all in one go.

We are really keen to see or hear about your great work that you have been doing. You can email us at year6@coleridgeprimary.net. If you put our name in the subject box, then we can respond to you.

Have a great week. We miss you!

Miss Edge, Mr Grimadell, Miss Henry and Mr Skrein.

Teaching

This week, you will be looking at **time**. You should be able to convert between analogue and digital representations of time, and work with 12 hour and 24 hour clocks. You will also be looking at intervals of time.

Time is calculated in seconds, minutes and hours, but also in days, weeks, months and years. You should be familiar with the duration of all of these.

To convert seconds into minutes, or minutes into hours, it is important to remember that you will be multiplying by 60 rather than 100. For example: 315 minutes is not 3 hours and 15 minutes, but 5 hours and 15 minutes.

Have a go at converting these:

- 1 – What is 513 minutes in hours and minutes?
- 2 - How many seconds are in 4 minutes and 28 seconds?
- 3 – How many years and months is 73 months?
- 4 – Convert 91 days into weeks and days.
- 5 – How many days are there in 22 weeks and 4 days?
- 6 – What is 5 years and 4 months in months?
- 7 – Write 395 minutes in hours and minutes.
- 8 – How many minutes are there in 46 hours?

Website Links

Here are some useful links:

This BBC bitesize page practises telling the time, converting the time and using roman numerals. It's not too tricky but is fun!

https://www.bbc.co.uk/bitesize/topics/zkfy_cdm/articles/zcrmqtj

This is a good game for practising converting analogue to digital and using 12 and 24 hour clock.

<http://www.scootle.edu.au/ec/viewing/L9646/index.html#>

Keep practising your multiplication and division facts!

<https://play.trockstars.com/auth/school/student>

If you finish everything we have set you and feel like you need a little extra, follow this link for a new activity each day.

<http://www.iseemaths.com/lessons56/>

Some word problems.

1. A film starts at 15:25 and lasts 132 minutes. What time will it finish?
2. A football match kicks off at 3 pm, lasts 94 minutes, and has a 15 minute half time. What time does it end?
3. Daniella saves 10p a day. She wants to save £4.50. How many weeks and days will it take?
4. Year 6 have 5 maths lessons a week that last 50 minutes each. How many hours and minutes will they spend doing maths over a 7 week half term?
5. Sam wants to catch the 19.06 train. His watch says quarter past 5. How long is it until his train departs?

These two are tricky ones!

6. A sleeper train is due to leave at 2325 and arrive the following day at 0717. It leaves 12 minutes late, but catches up time to arrive 3 minutes early. How long did the train take, in hours and minutes?
7. The world record time for the marathon is held by Eliud Kipchoge at 2 hours 1 minute and 39 seconds. Assuming a marathon is 42 km, calculate, to the nearest second, how many seconds on average, Eliud ran each 100 m.

Have a go at writing your own time word problems and send them to a friend

Apply it!

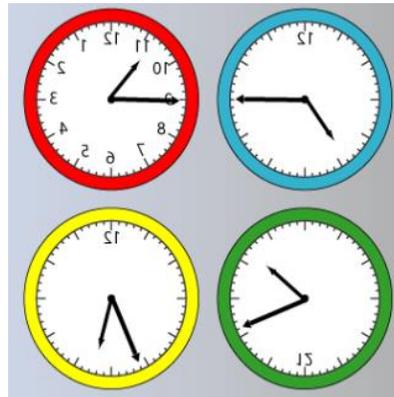
Imagine we talked about time using decimals.
Would 2.3 hours be:
2 hours and 3 minutes
2 hours and 20 minutes
2 and a half hours, or
2 hours and 18 minutes?
Explain your decision

Mandeep's watch loses two minutes every hour.
Adam's watch gains one minute every hour.
They both set their watches from the radio at 6:00 a.m. then start their journeys to the airport. When they arrive (at the same time) their watches are 10 minutes apart.



At what time (the real time) did they arrive at the airport?

These clocks have been reflected in a mirror. What time do they show?



Games and Investigations

On a digital 24 hour clock, at certain times, all the digits are consecutive (in counting order). You can count forwards or backwards.

For example, 1:23 or 5:43.

How many times like this are there between midnight and 7:00?
How many are there between 7:00 and midday?
How many are there between midday and midnight?

Have a go at this strategy game:

<https://nrich.maths.org/10781>

You could play it against the computer or against a family member. Is there a particular strategy that helps you to win?
Can you beat the computer?

Fancy something REALLY tough?!

A train leaves the station on time. After it has gone 8 miles the driver looks at his watch and sees that the hour hand is exactly over the minute hand.

The average speed of the train over the 8 miles was 33mph.

When did the train leave the station?