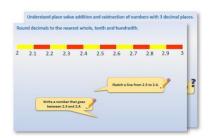
## Week 9, Day 3

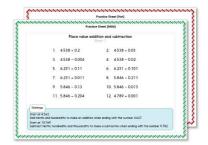
### Tell the time to the minute

Each day covers one maths topic. It should take you about 1 hour or just a little more.

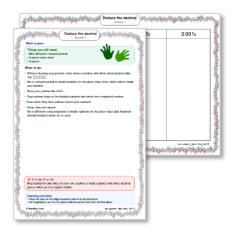
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



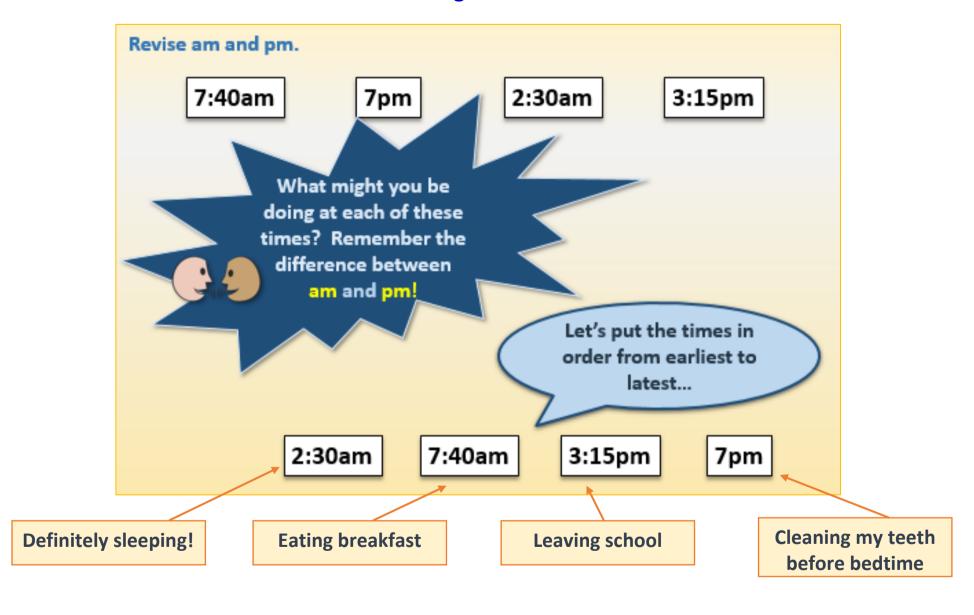
Tackle the questions on the Practice Sheet.
 There might be a choice of either Mild (easier) or Hot (harder)!
 Check the answers.

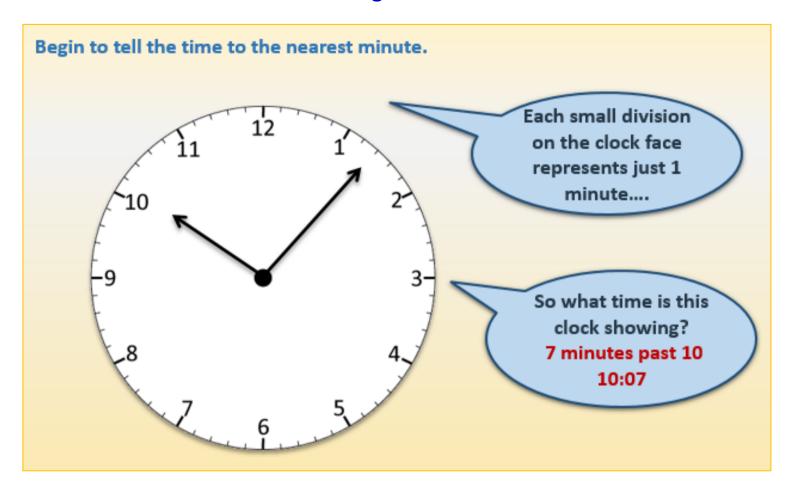


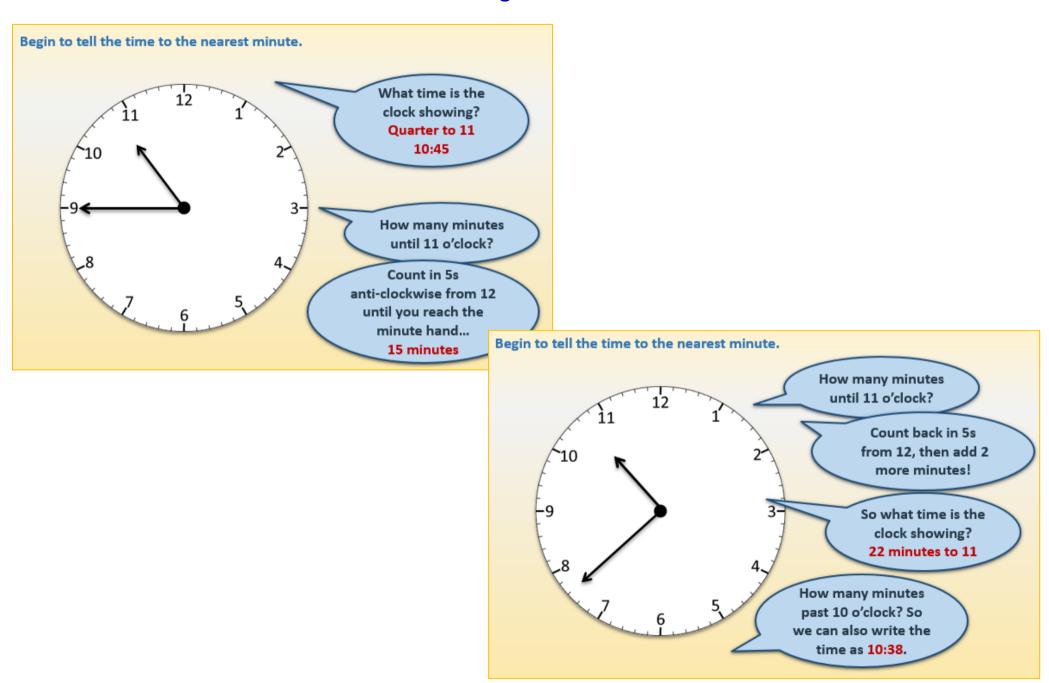
3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

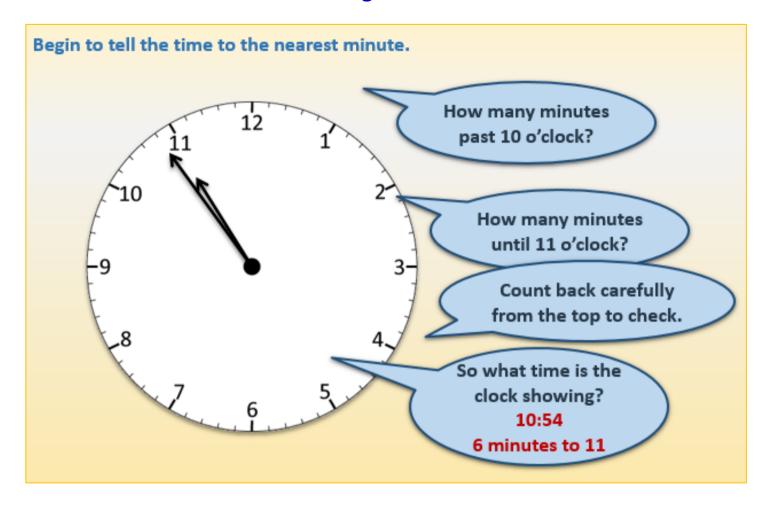


4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the **Investigation**...



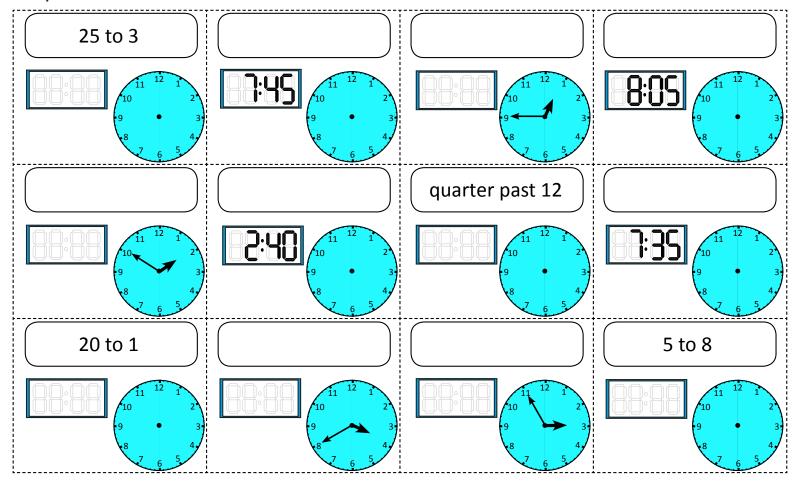






# Practice Sheet Mild Missing times

Write/draw equivalent times for each of these:

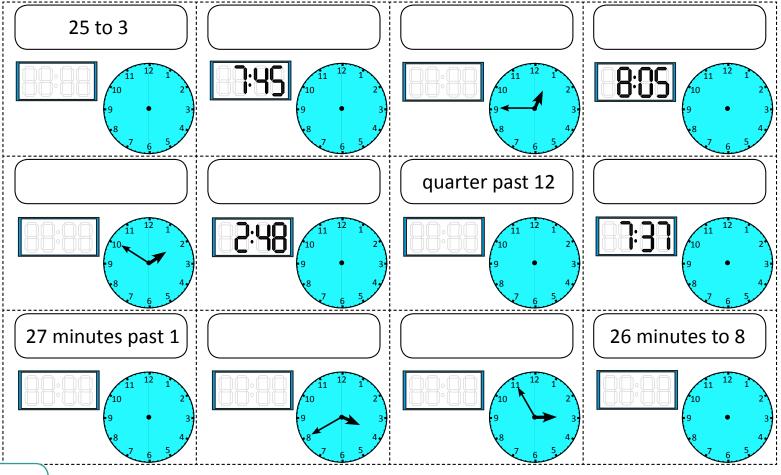


Challenge

Write three times between 8:05 and 8:25.

# Practice Sheet Hot Missing times

Write/draw the equivalent times for each of these.

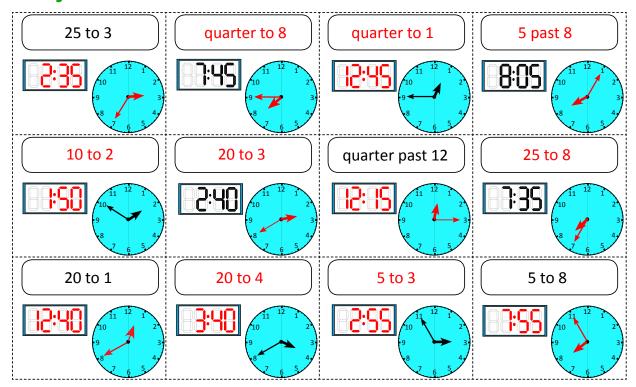


Challenge

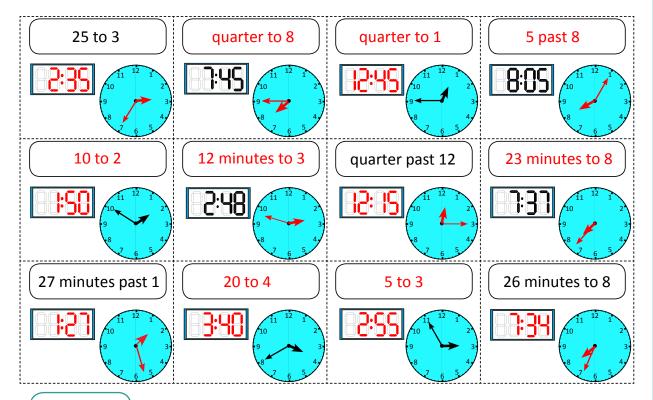
These times are all between 8 am and 8 pm. Can you write these times from earliest to latest?

### **Practice Sheet Answers**

### Missing times Mild



### Missing times (hot)



### Challenge

The times in order from earliest to latest are: 8:05, 12:15, 12:45, 1:27, 1:50, 2:35, 2:48, 2:55, 3:40, 7:35, 7:37, 7:45

## A Bit Stuck? Match the times

### Work in pairs

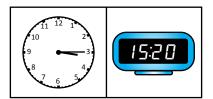
### Things you will need:

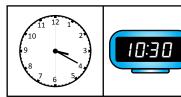
· A set of dominoes



### What to do:

- Work in pairs to make a loop out of the time dominoes.
- Touching ends must have matching times, one analogue and the other digital.





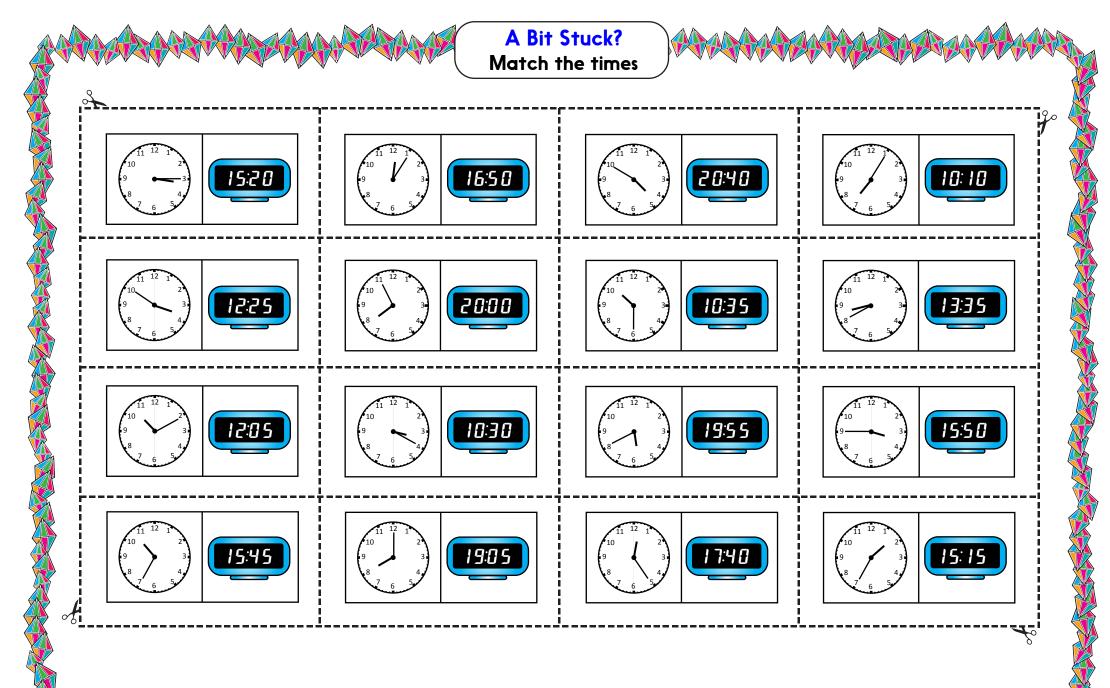
• Can you use all the dominoes in your loop?

### S-t-r-e-t-c-h:

Find pairs of dominoes such that the time on one side is 5 minutes before or later than the time on the other side. How many are there?

### Learning outcomes:

- I can tell the time to 5 minutes on analogue and digital clocks.
- I am beginning to say the time 5 minutes before or after o'clock,  $\frac{1}{4}$  past,  $\frac{1}{2}$  past and  $\frac{1}{4}$  to times.



## Investigation

## All the eights

Your challenge is to find how many times the digit 8 appears on a digital clock in a day, that is from midnight to midnight. The clock is one which shows am and pm times not 24-hour times, e.g.

2:48pm

11

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3

### **HELPFUL HINTS**

First think about each hour from midnight to midday.

How many times does the digit appear between midnight and 1am?

0:08

0:18

0:28

And how many more times like this before 1am?

### Now continue in this way...

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- How many times will the digit 8 appear between 1am and 2am?
- Between 2am and 3am?
- Will it appear the same number of times each hour?
- Which hour will be different? How many times will the digit appear in that hour?

STRATEGIES to try...

You do not need to write out all the digital times
in which '8' appears... You just need to count the
number of times there are.

Once you have found how many times the digit 8 appears between midnight and midday, what do you think you could do next?

#### Further challenge

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×2

11

- Which other digits do you think will appear the same number of times as the digit 8?
- Which will appear a different number of times? Why?

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 $+ ? = x cm^3 \frac{1}{2} \div \frac{1}{2} > m^2 * \% < \frac{1}{2} - cm ? * \div \frac{1}{2}$