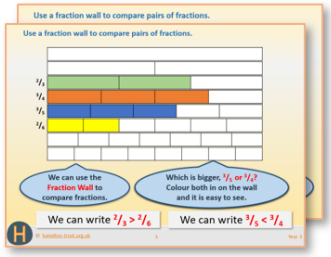
Year 3: Week 3, Day 4

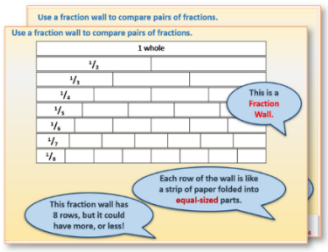
Write and draw analogue and digital clock times

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

1. If possible, watch the **PowerPoint presentation** with a teacher or another grown-up.



OR start by carefully reading through the **Learning Reminders**.
They come from our *PowerPoint* slides.



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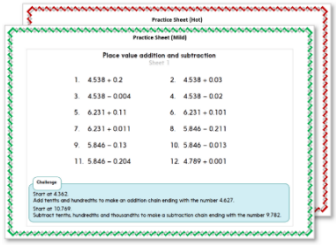
2. Tackle the questions on the **Practice Sheet**.
There might be a choice of either Mild (easier) or Hot (harder)!
Check the answers.



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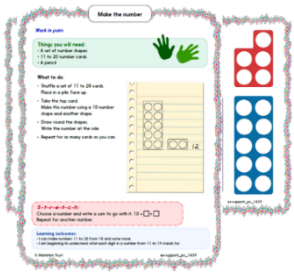
3. Finding it tricky? That's OK… have a go with a grown-up at **A Bit Stuck?**



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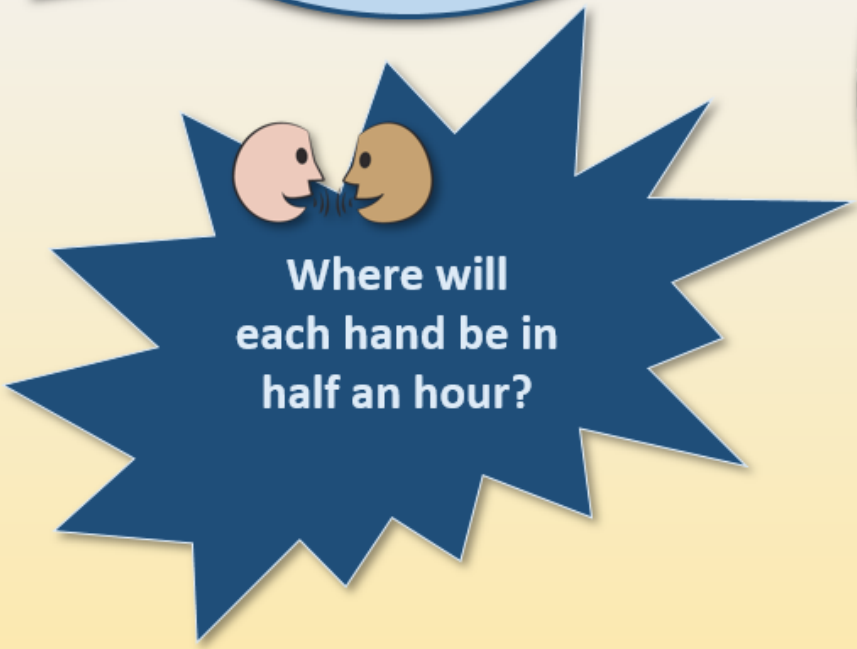
4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the **Investigation**…

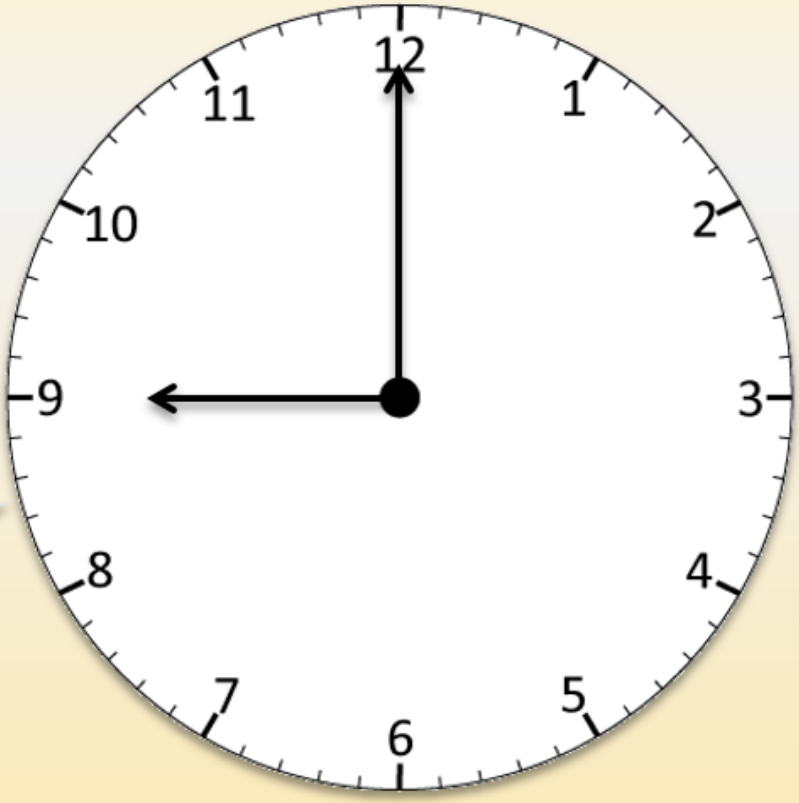
Learning Reminders

Write and draw corresponding analogue and digital clock times.

The clock is showing 9 o'clock.



Where will each hand be in half an hour?



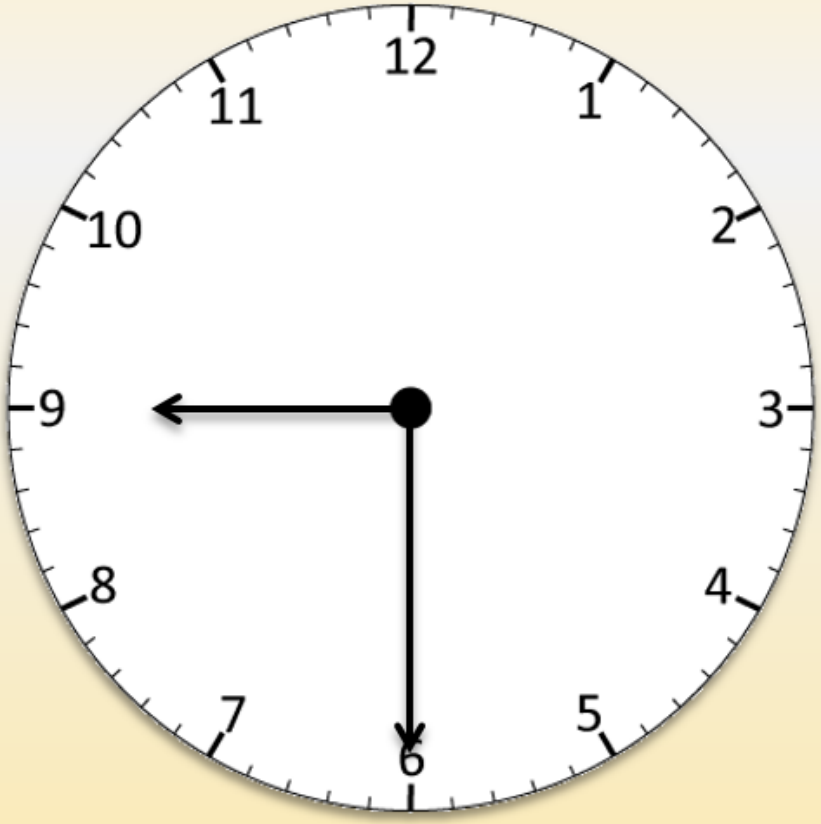
9:00

Don't forget to separate hours from minutes with a colon.

Learning Reminders

Write and draw corresponding analogue and digital clock times.

Half past 9



9:30

Did you remember the colon?

Learning Reminders

Write and draw corresponding analogue and digital clock times.

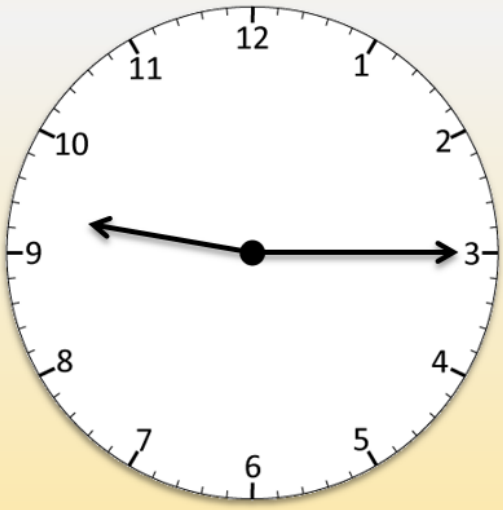
9:05

5 past 9

Let's count around the clock in 5 minute intervals...

9:10

10 past 9

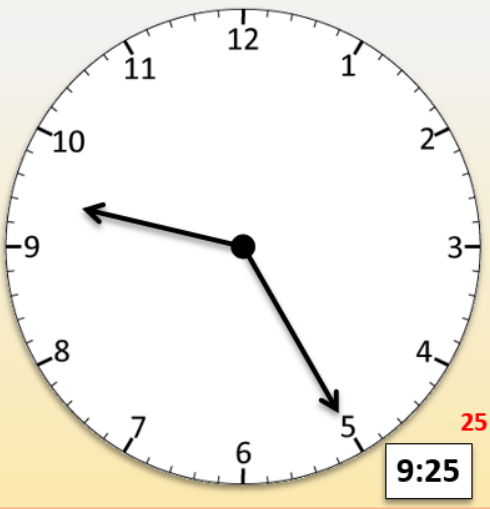


9:15

quarter past 9

20 past 9

9:20



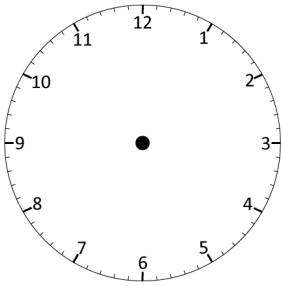
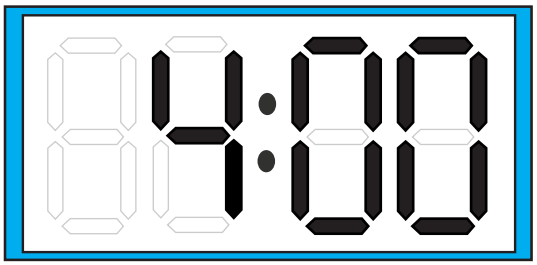
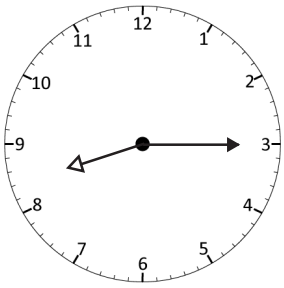
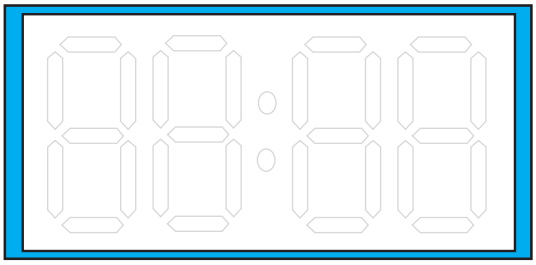
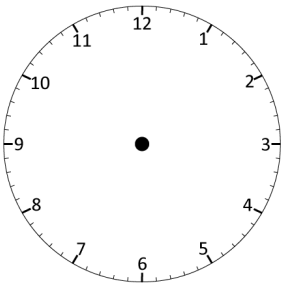
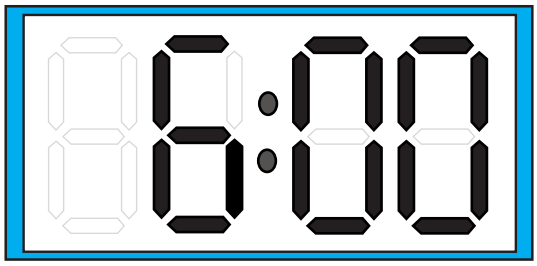
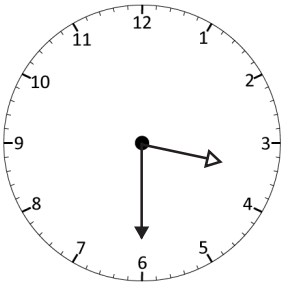
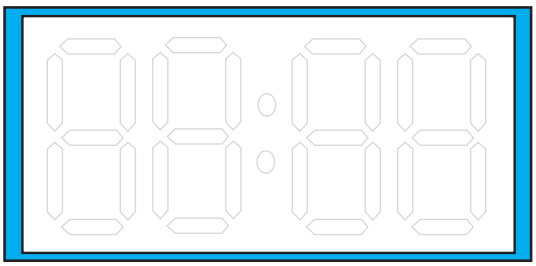
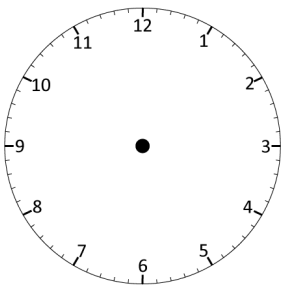
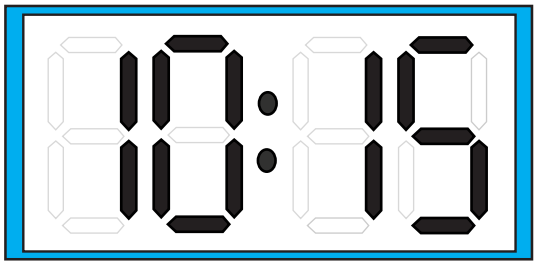
25 past 9

9:25

Practice Sheet Mild

Analogue and digital clock times

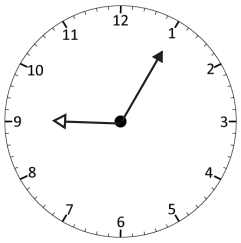
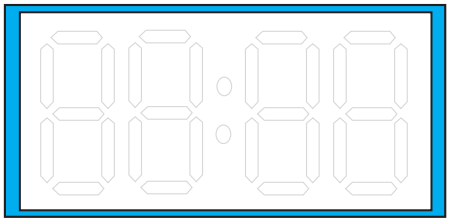
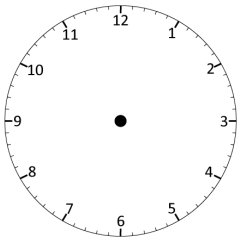
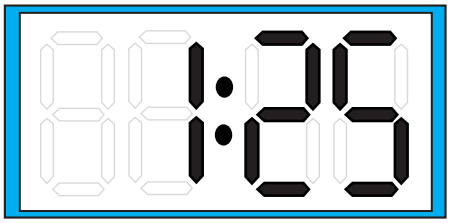
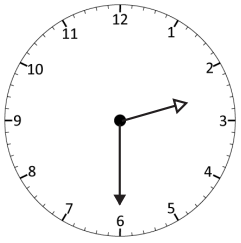
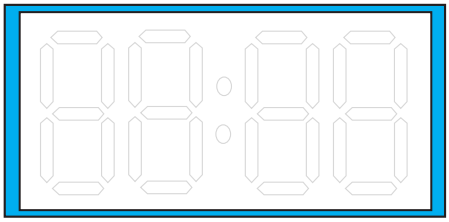
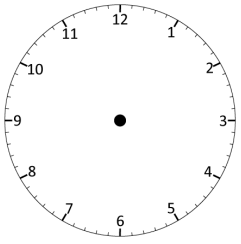
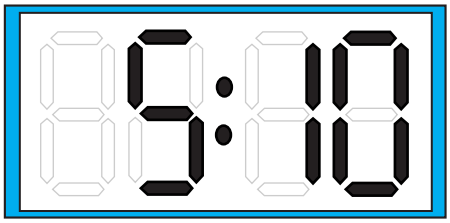
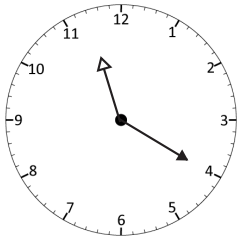
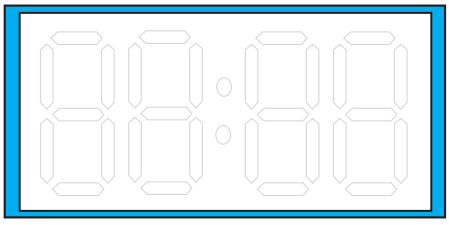
Draw hands on the clock, or fill in the digital display to show the matching analogue or digital clock times.

Practice Sheet Mild

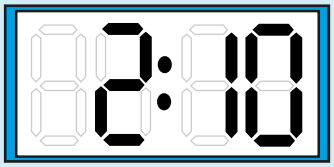
Analogue and digital clock times

Draw hands on the clock, or fill in the digital display to show the matching analogue or digital clock times.

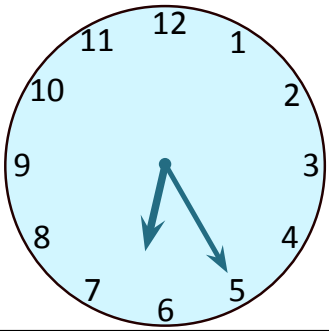
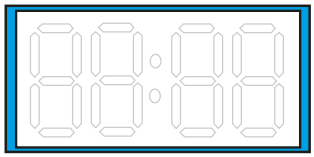
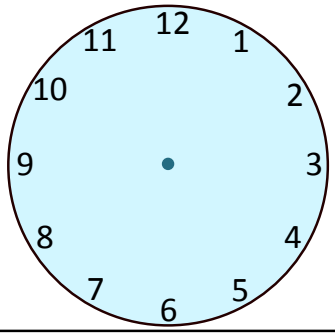
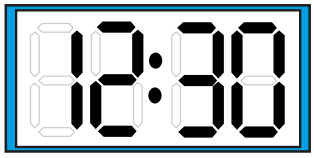
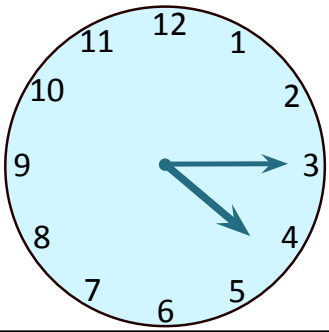
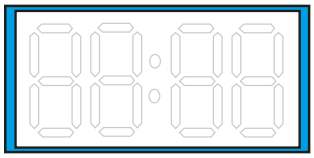
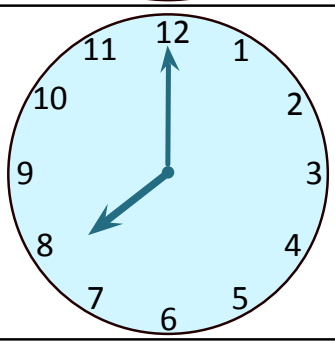
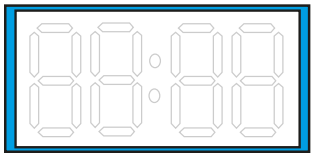
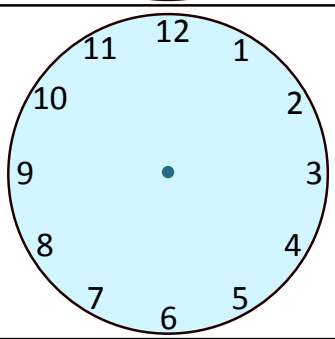
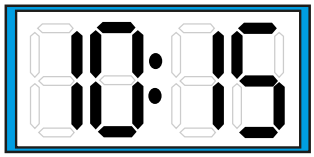
Challenge

Reflect this time in a mirror, horizontally and vertically.
What time does it show?
Can you draw them on an analogue clock?



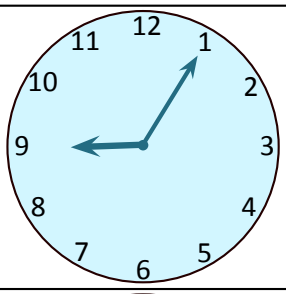
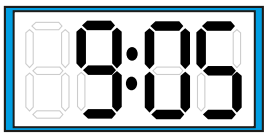
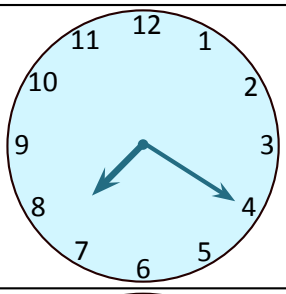
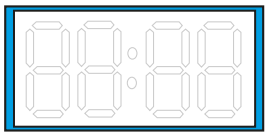
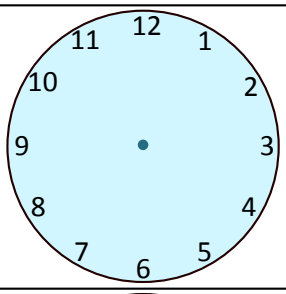
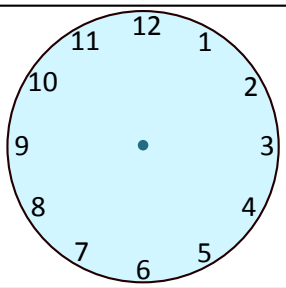
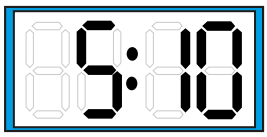
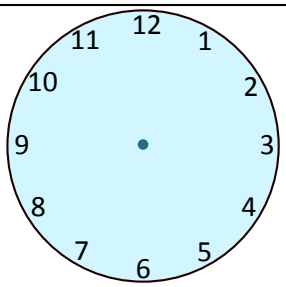
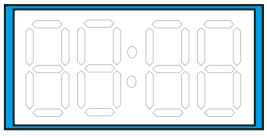
Practice Sheet Mild

Reading the time on analogue and digital clocks

		
		
		
		8 o'clock
		

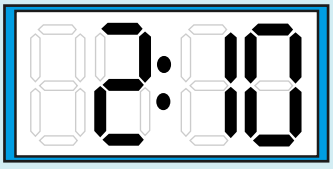
Practice Sheet Mild

Reading the time on analogue and digital clocks

		
		20 past 7
		25 past 2
		
		5 past 10

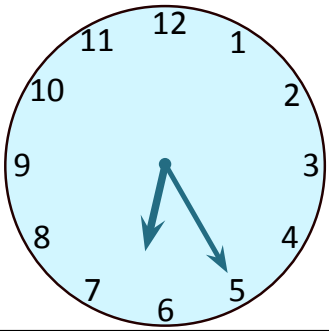
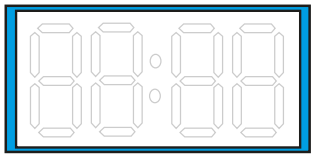
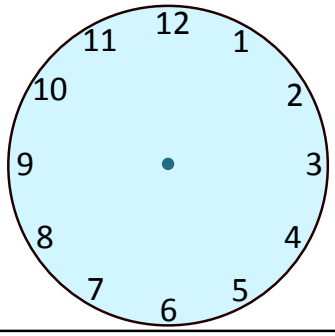
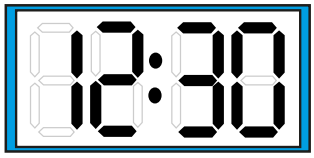
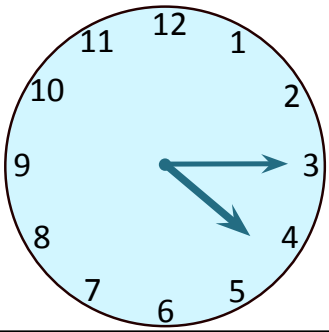
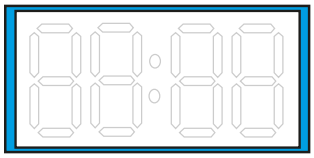
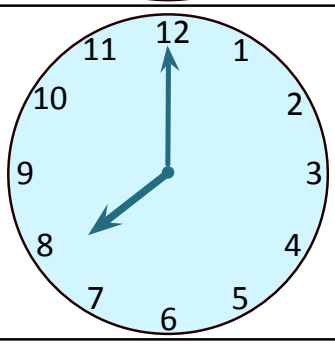
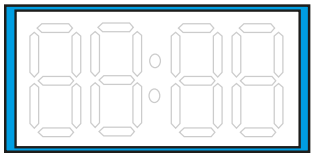
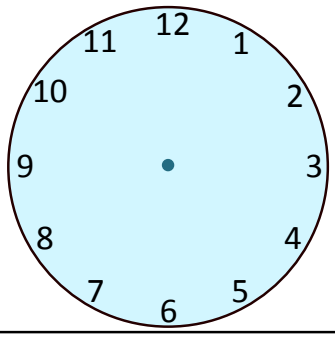
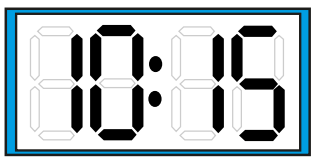
Challenge

Reflect this time in a mirror, horizontally and vertically.
What time does it show?
Can you draw them on an analogue clock?



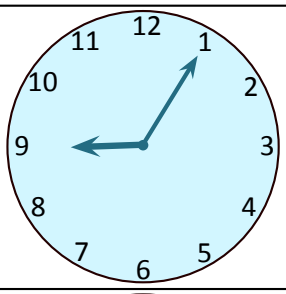
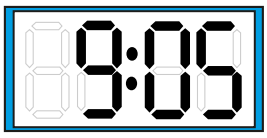
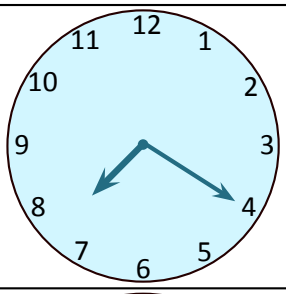
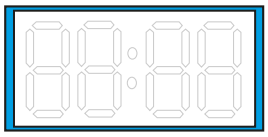
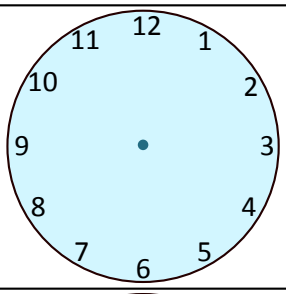
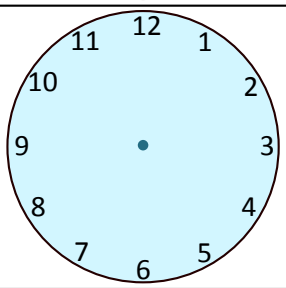
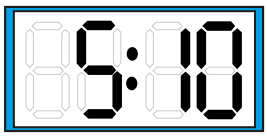
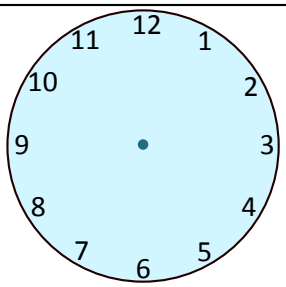
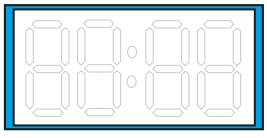
Practice Sheet Hot

Reading the time on analogue and digital clocks

		
		
		
		8 o'clock
		

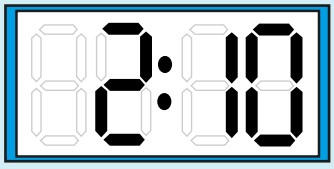
Practice Sheet Hot

Reading the time on analogue and digital clocks

		
		20 past 7
		25 past 2
		
		5 past 10

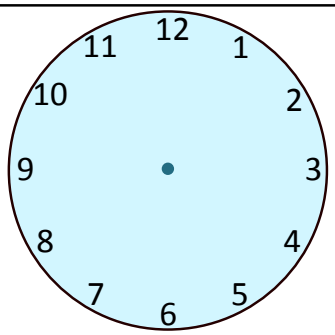
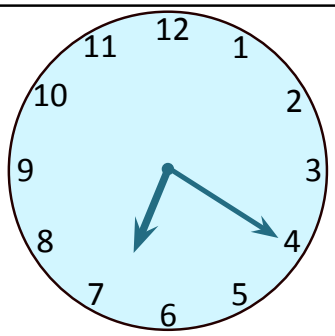
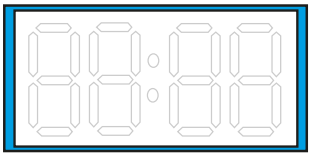
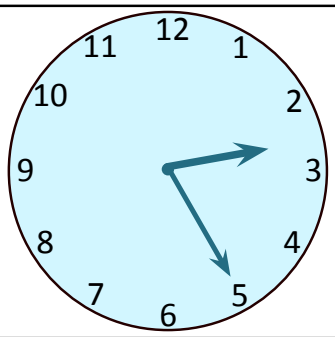
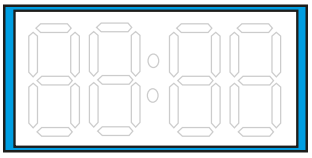
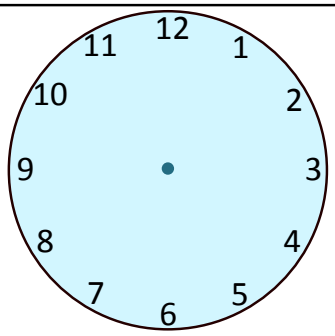
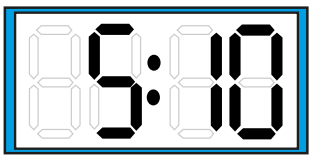
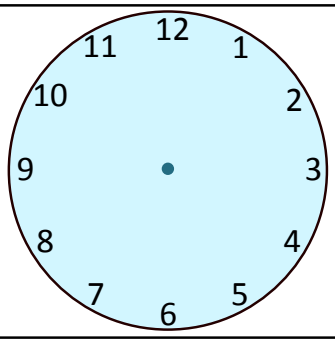
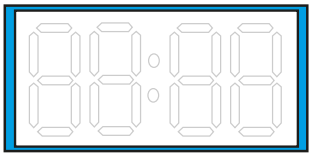
Challenge

Reflect this time in a mirror, horizontally and vertically.
What time does it show?
Can you draw them on an analogue clock?



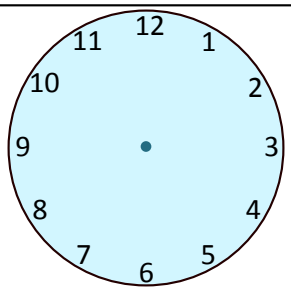
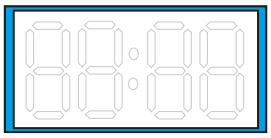
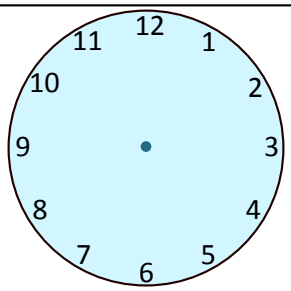
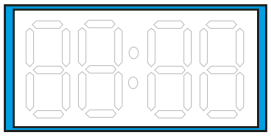
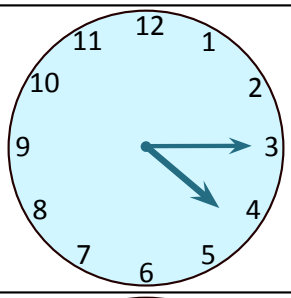
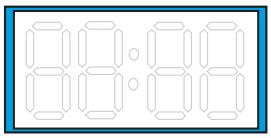
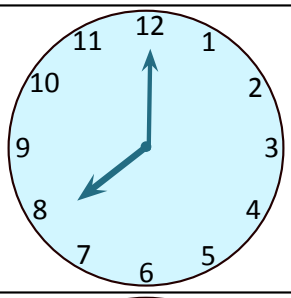
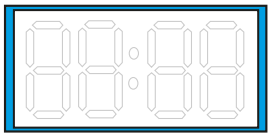
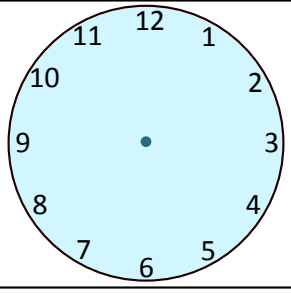
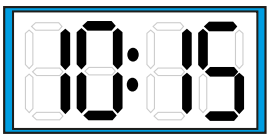
Practice Sheet Hot

Reading the time on analogue and digital clocks

		
		
		25 past 2
		
		5 past 10

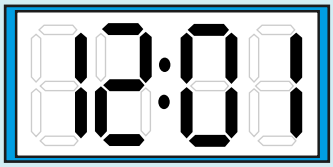
Practice Sheet Hot

Reading the time on analogue and digital clocks

		25 past 1
		half past 12
		
		
		

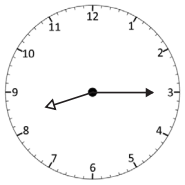
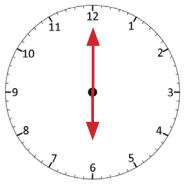
Challenge

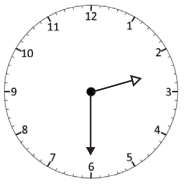
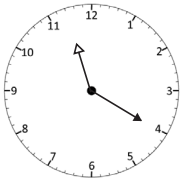
Reflect this time in a mirror, horizontally and vertically.
What time does it show?
Can you draw them on an analogue clock?



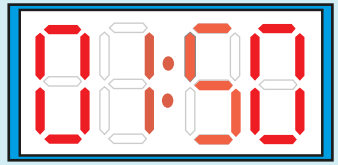
Practice Sheet Answers

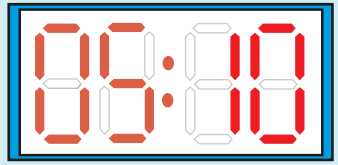
Analogue and digital clock times (mild)

	4:00
	8:15
	6:00
	3:30
	10:15

	8:05
	1:25
	8:40
	6:10
	11:20

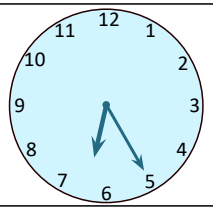
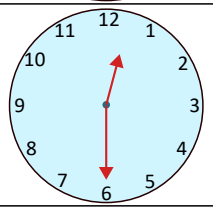
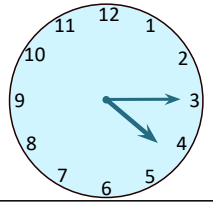
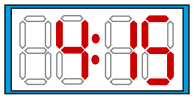
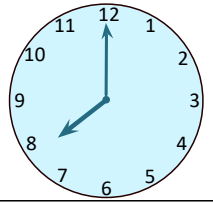
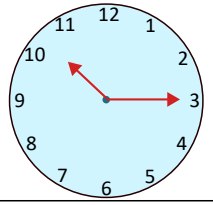
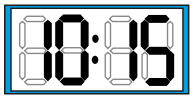
Challenge

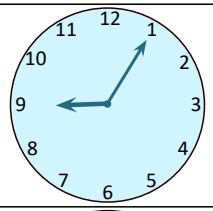
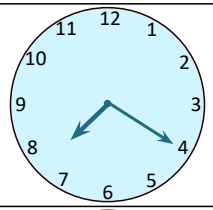
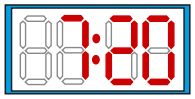
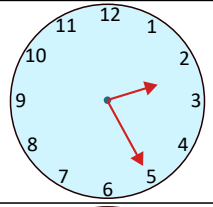
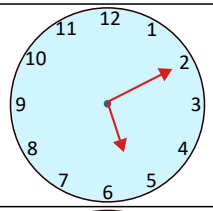
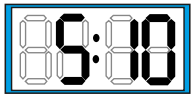
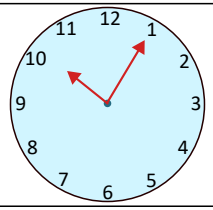
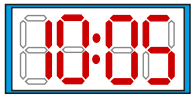




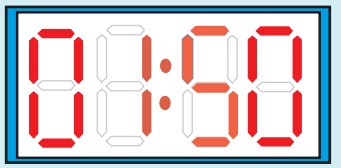
02:10 reflects horizontally in the mirror as 01:50 and vertically as 05:10

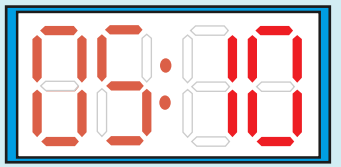
Reading the time on analogue and digital clocks (mild and hot)

		25 past 6
		half past 12
		quarter past 4
		8 o'clock
		quarter past 10

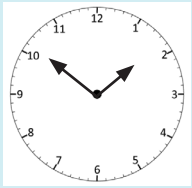
		5 past 9
		20 past 7
		25 past 2
		10 past 5
		5 past 10

Challenge

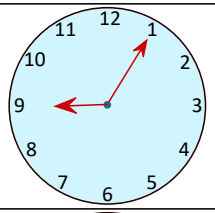
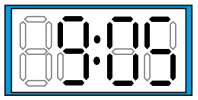
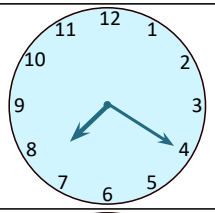
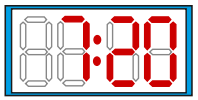
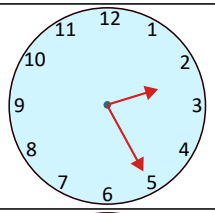
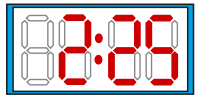
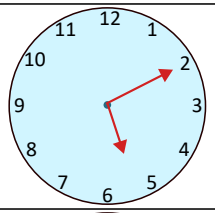
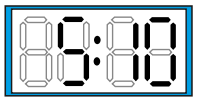
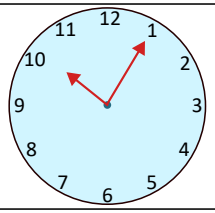
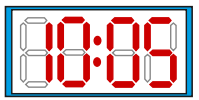


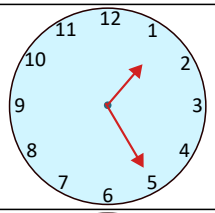
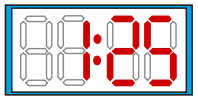
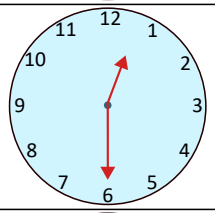
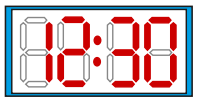
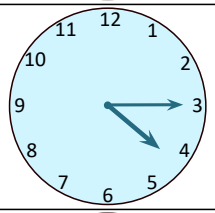
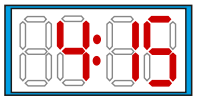
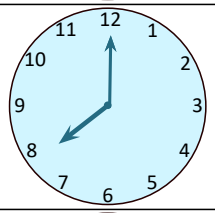
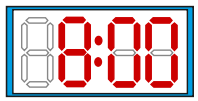
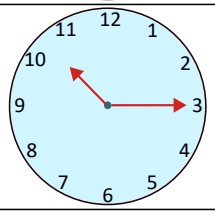
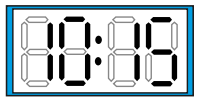


02:10 reflects horizontally in the mirror as 01:50 and vertically as 05:10

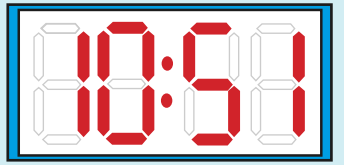


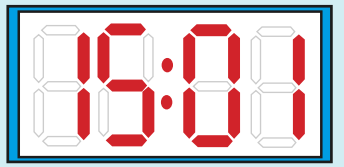
Reading the time on analogue and digital clocks (hot)

		5 past 9
		20 past 7
		25 past 2
		10 past 5
		5 past 10

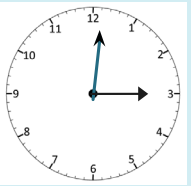
		25 past 1
		half past 12
		quarter past 4
		8 o'clock
		quarter past 10

Challenge





12:01 reflects horizontally in the mirror as 10:51 and vertically as 15:01

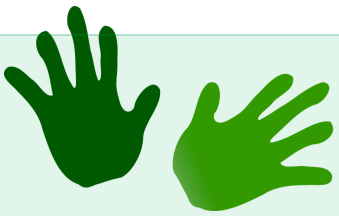


_answers

A Bit Stuck?
Pink past and blue to

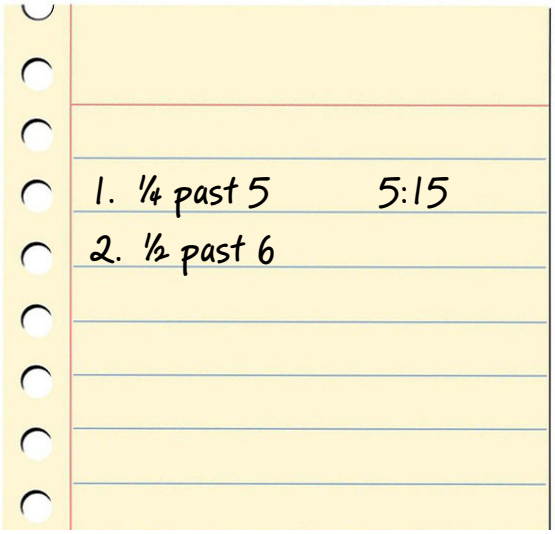
Work in pairs

Things you will need:
- A set of time cards
- A pencil



What to do:

- Shuffle the cards. Place face down.
- Take the top card. Read the time, e.g. ¼ past 5. Write this time how we say it. Write the matching digital time.
- Repeat.



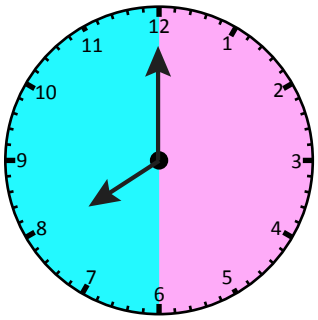
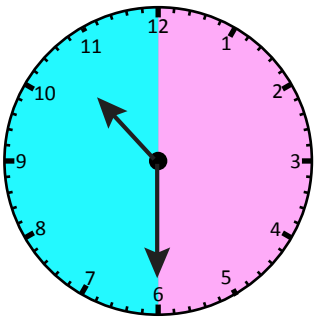
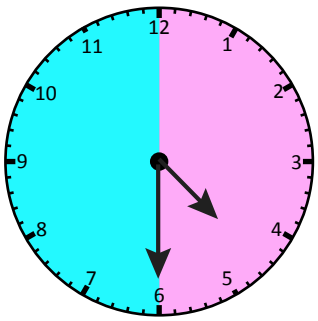
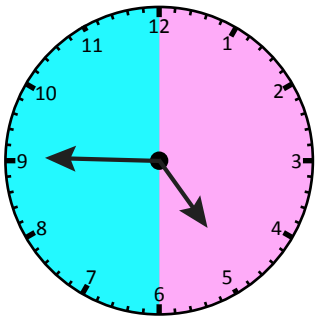
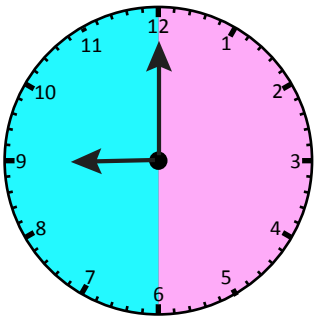
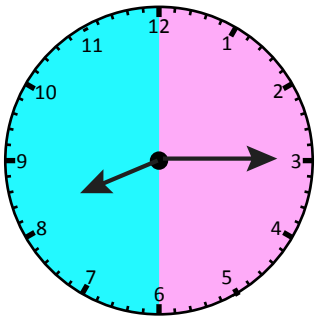
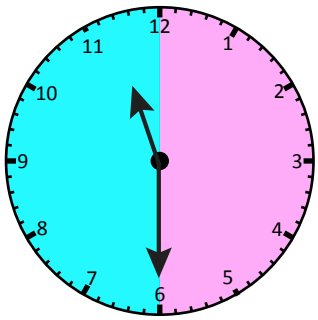
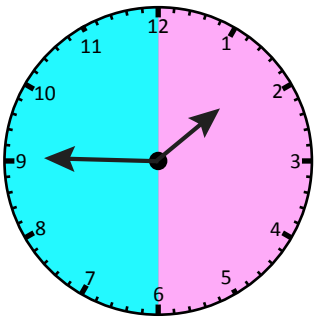
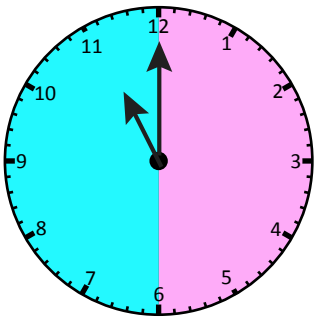
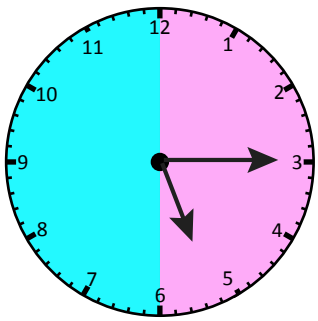
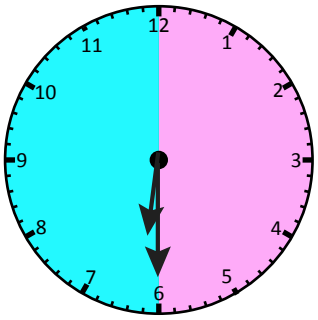
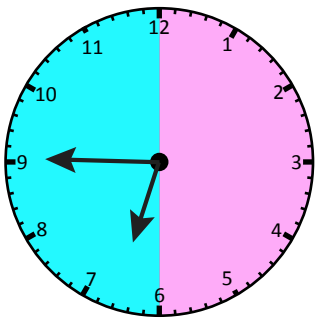
S-t-r-e-t-c-h:

Write three times between 10 o'clock and 11 o'clock. Write them in words as we say the time on an analogue clock and using numbers how they are shown on a digital clock.

Learning outcomes:
- I can tell the time to the quarter hour on analogue and digital clocks.

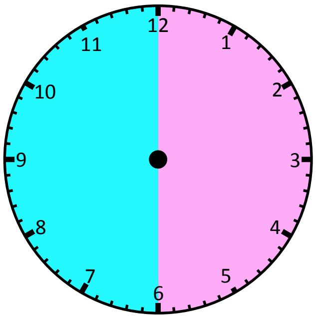
A Bit Stuck?

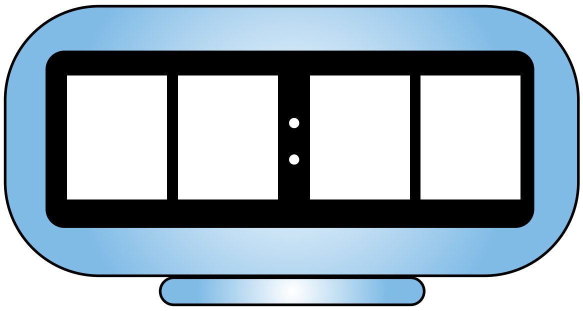
Pink past and blue to

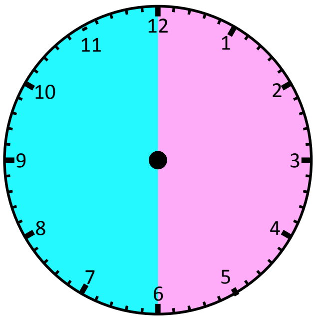













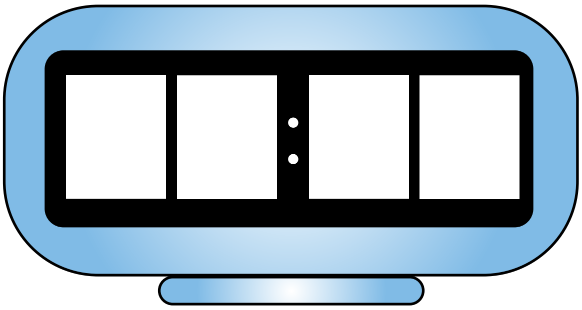
A Bit Stuck?

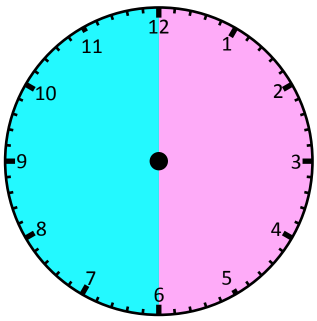
Pink past and blue to

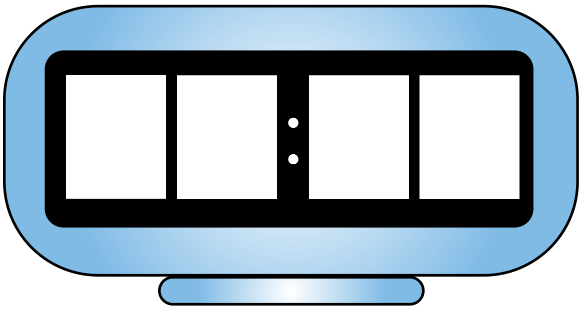


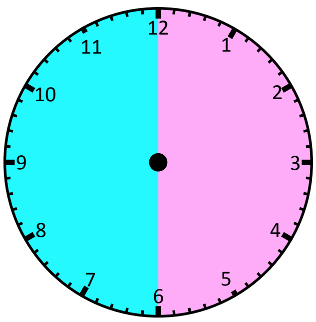


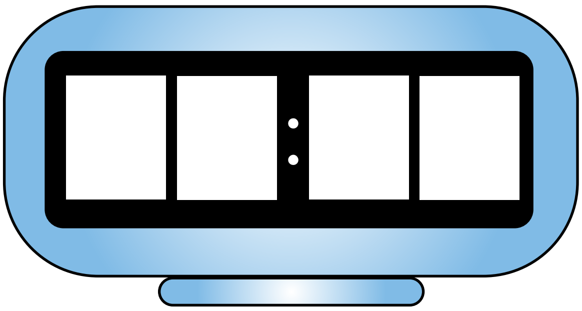












Investigation
Dodgy digital clock

1. Ahmed's bedside digital clock is not working properly. One segment of the display doesn't light up.

2. Which numbers won't display properly?

0123456789

3. Work out how many times between 10:00 and 11:00 won't display properly.

4. What if this segment had been broken instead? Would that make a difference to how many times would display correctly? Why/why not?

5. Choose a segment which, if broken, would show fewer wrongly displayed times between 10:00 and 11:00 than the one which broke on Ahmed's clock.

digits spoiled	digits not spoiled
0	1