

## Pink or blue?

*Children explore the number of quarter past and quarter to times in a day by looking at the two sides of the clock.*

## Skills practised:

- Setting an analogue clock at quarter past or quarter to the hour
- Matching analogue and digital times

**Conjecture:** *We can work out how many quarter past and quarter to times there are in the day.*

### What to do:

*Children work individually or in pairs.*

*You will need an analogue clock face with moveable hands.*

1. Set your clock to quarter past one.
2. Look at the clock face on this sheet.  
Now look at your clock. Both the hands are in the 'pink' half of the clock.  
Write this time using digital format, 1:15.
3. How many more 'quarter past' times are there where both hands are in the 'pink' half?  
Write them all using digital format.

Can you be absolutely sure that you have found them all?

4. Now set your clock hands to quarter to 7.
5. Look at the clock face on this sheet. Now look at your clock. Both the hands are in the 'blue' half of the clock. Write this time using digital format, 6:45.
6. How many more 'quarter to' times are there where both hands are in the 'blue' half?  
Write them all using the digital format.

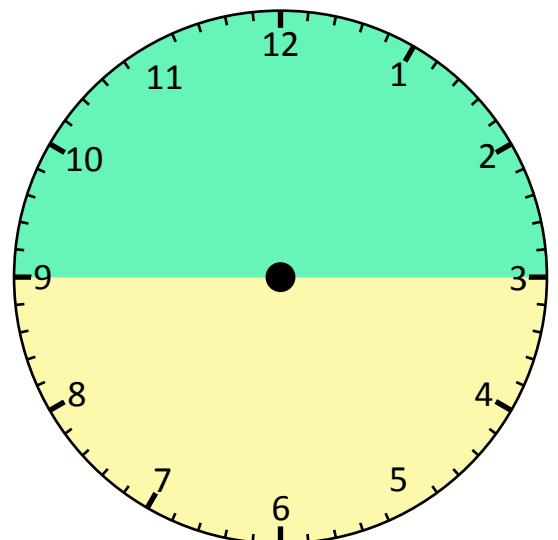
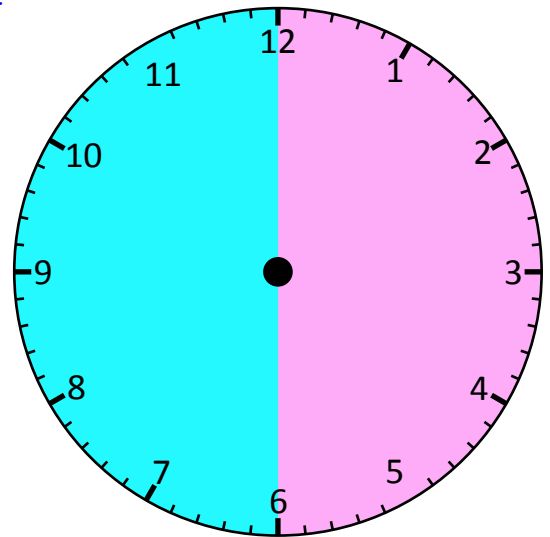
Can you be absolutely sure that you have found them all?

### CHALLENGE:

- How many 'quarter to' and 'quarter past' times have both hands in the yellow part of the clock?
- How many 'quarter to' and 'quarter past' times have both hands in the green part of the clock?

**NOTE:** *If a hand is 'on the line' it can be counted as 'in' either section.*

Can you say how many 'quarter past' and 'quarter to' times there are in the day?



### Aims:

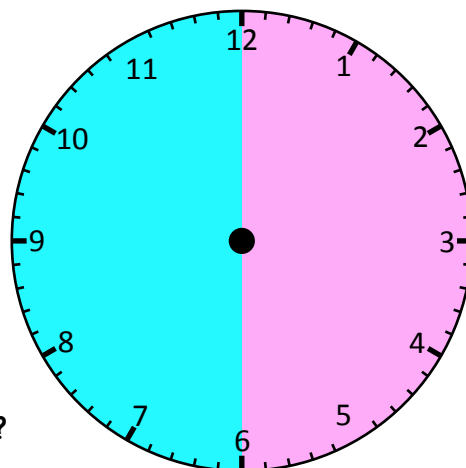
- To create 'quarter past' and 'quarter to' times and notice the patterns of the hands
- To work out how many such times there are in the day

### Minimum number of calculations expected

N/A

## Pink or blue?

- Set your clock to quarter past one.
- Look at the clock face.  
Now look at your clock. Both the hands are in the 'pink' half of the clock.  
Write this time using digital format, 1:15.
- How many more 'quarter past' times are there where both hands are in the 'pink' half?  
Write them all using digital format.



Can you be absolutely sure that you have found them all?

- Now set your clock hands to quarter to 7.
- Look at the clock face. Now look at your clock. Both the hands are in the 'blue' half of the clock. Write this time using digital format, 6:45.
- How many more 'quarter to' times are there where both hands are in the 'blue' half?  
Write them all using the digital format.

Blue	Pink
6:45	1:15
	2:15

Can you be absolutely sure that you have found them all?

**NOTE:** If a hand is 'on the line' it can be counted as 'in' either section.

### Challenge

- How many 'quarter to' and 'quarter past' times have both hands in the yellow part of the clock?
- How many 'quarter to' and 'quarter past' times have both hands in the green part of the clock?

Can you say how many 'quarter past' and 'quarter to' times there are in the day?

