

# Reasoning and Problem Solving

## Step 1: O'clock and Half Past

### National Curriculum Objectives:

Mathematics Year 2: (2M4a) [Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times](#)

Mathematics Year 2: (2M4b) [Compare and sequence intervals of time](#)

### Differentiation:

Questions 1, 4 and 7 (Problem Solving)

**Developing** Match the clock to the time and the most likely event at that time. One clock.

**Expected** Match the clock to the time and the most likely event at that time. Two clocks.

**Greater Depth** Match the clock to the time and the most likely event at that time. Two clocks without numerical aids.

Questions 2, 5 and 8 (Reasoning)

**Developing** Decide if a child has read the time correctly or not. Explain how you know. One mistake made.

**Expected** Decide if a child has read the time correctly or not. Explain how you know. More than one mistake made.

**Greater Depth** Decide if a child has read the time correctly or not. Explain how you know. More than one mistake made and clocks without numerical aids.

Questions 3, 6 and 9 (Reasoning)

**Developing** Decide where the hands would be on a clock at a specific time and explain. Minute hand only.

**Expected** Decide where the hands would be on a clock at a specific time and explain. Both hands.

**Greater Depth** Decide where the hands would be on a clock at a specific time and explain. One hand given without numerical aids.

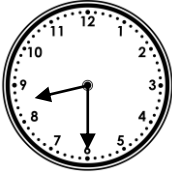
More [Year 2 Time](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

# O'clock and Half Past

# O'clock and Half Past

1a. Match the clock to the time and the most likely event.



Half past 8

Half past 6

6 o'clock

Going to school

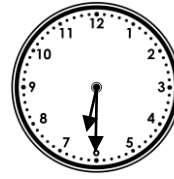
Having lunch

Going home



PS

2a. Match the clock to the time and the most likely event.



Half past 8

Half past 6

6 o'clock

Having dinner

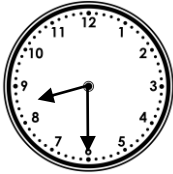
Having lunch

Starting school



PS

2a. Jason is trying to tell the time.



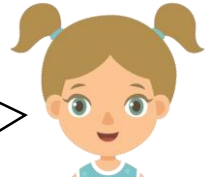
It is 6 past 8.

Is Jason correct? How do you know?



R

2b. Ellie is trying to tell the time.



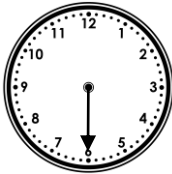
It's half past 6.

Is Ellie correct? How do you know?



R

3a. The hour hand has fallen off this clock. Sam says:



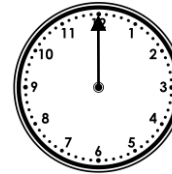
It's half past 8. So the hour hand would be pointing at the 8.

Is Sam right? Explain how you know.



R

3b. The hour hand has fallen off this clock. Nikki says:



It's 6 o'clock. That means the hour hand would be pointing at 12.

Is Nikki right? Explain how you know.



R

# O'clock and Half Past

# O'clock and Half Past

4a. Match the clocks to the time and the most likely event.



Half past 8

Half past 6

12 o'clock

Going to school

Having lunch

Going home



PS

4b. Match the clocks to the time and the most likely event.



Half past 3

9 o'clock

6 o'clock

Start of school

Having lunch

Going home



PS

5a. Dustin is trying to tell the time.



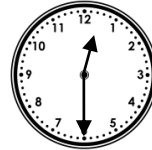
It is between 6 o'clock and 7 o'clock.

Is Dustin right? How do you know?



R

5b. Millie is trying to tell the time.



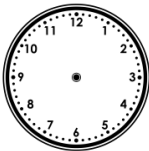
It's 6 o'clock.

Is Millie right? How do you know?



R

6a. The hands have fallen off this clock. Lucas says:



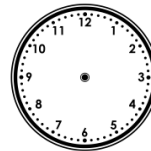
It's 4 o'clock so the minute hand should be pointing at the 12.

Is Lucas right? Explain how you know.



R

6b. The hands have fallen off this clock. Aqba says:



It's 12 o'clock so the hands should both be pointing to the same place.

Is Aqba right? Explain how you know.

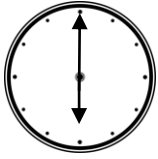


R

# O'clock and Half Past

# O'clock and Half Past

7a. Match the clock to the time and the most likely event.



12 o'clock

Half past 3

6 o'clock

Having supper

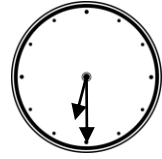
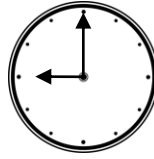
Having lunch

Going home



PS

7b. Match the clock to the time and the most likely event.



Half past 8

Half past 6

9 o'clock

Starting school

Having lunch

Being at home



PS

8a. Steve is trying to tell the time.



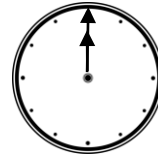
It's 6 past 6.

Is Steve right? How do you know?



R

8b. Macey is trying to tell the time.



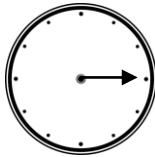
It must be midnight.

Is Macey right? How do you know?



R

9a. The minute hand has fallen off this clock. Kate says:



The minute hand was probably pointing up.



Is Kate right? Explain how you know.

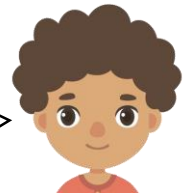


R

9b. The minute hand has fallen off this clock. Kevin says:



The minute hand was probably pointing down.



Is Kevin right? Explain how you know.



R

## Reasoning and Problem Solving O'clock and Half Past

## Reasoning and Problem Solving O'clock and Half Past

### Developing

1a.



Half past 8

Half past 6

6 o'clock

Going to school

Having lunch

Going home

### Developing

1b.



Half past 8

Half past 6

6 o'clock

Having dinner

Having lunch

Starting school

2a. Jason is wrong. He has mixed up 'half past' with the number '6'. It is half past 8.

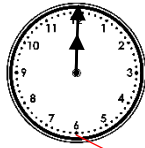
3a. Sam is wrong because the hour hand would be in between the 8 and 9.

2b. Ellie is wrong. The minute hand is at half past but it is half past 8, not 6.

3b. Nikki is wrong. The hour hand points at 6 when it is 6 o'clock.

### Expected

4a.



Half past 8

Half past 6

12 o'clock

Going to school

Having lunch

Going home

### Expected

4b.



Half past 3

9 o'clock

6 o'clock

Start of school

Having lunch

Going home

5a. Dustin is right. But that doesn't tell us the time. It is half past 6.

6a. Lucas is right. At o'clock the minute hand always points at 12.

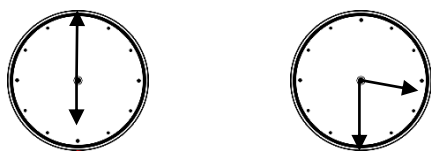
5b. Millie is wrong. The hour hand is between 12 and 1 and minute hand at half past. It is half past 12.

6b. Aqba is right. At 12 o'clock the hour and minute hands both point towards the 12.

## Reasoning and Problem Solving O'clock and Half Past

### Greater Depth

7a.



12 o'clock      Half past 3      6 o'clock

Having supper      Having lunch      Going home

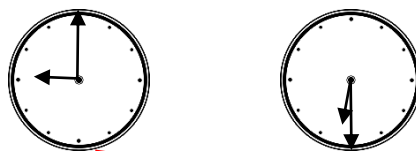
**8a. Steve is wrong because the minute hand is pointing at half past, not 6. It is half past 6.**

**9a. Kate is right because the hour hand is exactly at the number 3 so it is 3 o'clock.**

## Reasoning and Problem Solving O'clock and Half Past

### Greater Depth

7b.



Half past 8      Half past 6      9 o'clock

Starting school      Having lunch      Being at home

**8b. Macey could be right. It is 12 o'clock so this could be midnight or noon.**

**9b. Kevin is right because the hour hand is about halfway between 6 and 7. So it is likely that it is half past 6.**