

# Reasoning and Problem Solving

## Step 5: AM and PM

### National Curriculum Objectives:

Mathematics Year 3: (3M4d) [Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight](#)

### Differentiation:

Questions 1, 4 and 7 (Problem Solving)

**Developing** Complete the table to show whether times of day are a.m. or p.m. when telling the time using analogue and digital clocks, recognising a.m. as morning and p.m. as afternoon. Includes 10 minute intervals.

**Expected** Complete the table to show whether times of day are a.m., p.m. or both when telling the time using analogue and digital clocks, recognising a.m. as morning and p.m. as afternoon. Includes 5 minute intervals.

**Greater Depth** Complete the table by recording an activity that might occur during a.m., p.m. or both when telling the time using analogue and digital clocks, recognising a.m. as morning and p.m. as afternoon. Includes 1 minute intervals.

Questions 2, 5 and 8 (Reasoning)

**Developing** Explain whether digital times have been written correctly when telling the time using analogue and digital clocks, recognising a.m. as morning and p.m. as afternoon. Includes 10 minute intervals.

**Expected** Explain whether digital times have been written correctly when telling the time using analogue and digital clocks, recognising a.m. as morning and p.m. as afternoon. Includes 5 minute intervals.

**Greater Depth** Explain whether digital times have been written correctly when telling the time using analogue and digital clocks, recognising a.m. as morning and p.m. as afternoon. Includes 1 minute intervals.

Questions 3, 6 and 9 (Reasoning)

**Developing** Decide if a statement is correct and explain why when telling the time using analogue and digital clocks, recognising a.m. as morning and p.m. as afternoon. Includes 10 minute intervals.

**Expected** Decide if a statement is correct and explain why when telling the time using analogue and digital clocks, recognising a.m. as morning and p.m. as afternoon. Includes 5 minute intervals.

**Greater Depth** Decide if a statement is correct and explain why when telling the time using analogue and digital clocks, recognising a.m. as morning and p.m. as afternoon. Includes 1 minute intervals.

More [Year 3 Time](#) resources.

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

## AM and PM

1a. Sort the activities into the table to show whether they would be a.m. or p.m.

a.m.	p.m

A. Walk to school at 8:30.

B. Bedtime story at 8:00 .

C. Put pyjamas on at 7:30.

D. Get dressed at 7:10.



PS

## AM and PM

1b. Sort the activities into the table to show whether they would be a.m. or p.m.

a.m.	p.m.

A. Eat some supper.

B. Close the curtains.

C. Eat some cereal.

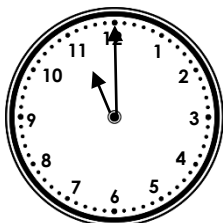
D. Open the curtains.



PS

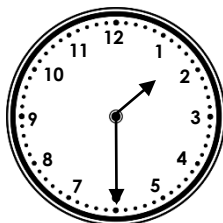
2a. Toby has written the digital times to match the analogue clocks below.

Film starts:



11:00am

Film ends:



1:30am

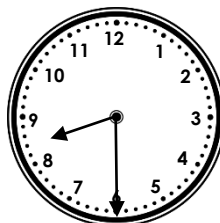
Is he correct? Explain how you know.



R

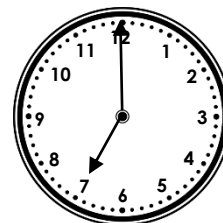
2b. Kelly has written the digital times to match the analogue clocks below.

Go to bed at:



8:30pm

Wake up at:



7:00pm

Is she correct? Explain how you know.



R

3a. Anju's plane arrives at the airport at 9:10. Tom's plane arrives at 8.40.



Anju

My plane will definitely arrive after Tom's as 9:10 comes after 8:40.

Is Anju Correct?  
Explain how you know.



R

3b. Jai's swimming lesson is at 11:20am. Mia's swimming lesson is at 1:10pm.



Jai

Mia's swimming lesson is before my swimming lesson because one comes before eleven.

Is Jai correct?  
Explain how you know.



R

# AM and PM

# AM and PM

4a. Sort the activities into the table to show whether they would be a.m., p.m. or both.

a.m.	p.m.	Both

A. Brush your teeth at 8:25.

B. Eat breakfast at 8:05.

C. Go to sleep at 8:45.

D. Do homework at 6:35.



PS

4b. Sort the activities into the table to show whether they would be a.m., p.m. or both.

a.m.	p.m.	Both

A. Have a drink at 8:05.

B. Watch the sun set at 8:45.

C. Watch the sun rise at 6:15.

D. Wash your face at 7:55.

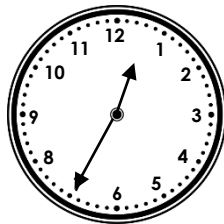
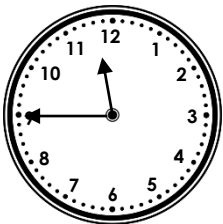


PS

5a. Ben has written the digital times to match the analogue clocks below.

Lunchtime starts:

Lunchtime ends:



11:45am

12:35am

Is he correct? Explain how you know.

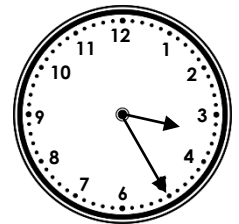
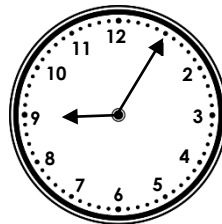


R

5b. Jacinta has written the digital times to match the analogue clocks below.

School starts:

School ends:



9:05pm

3:25pm

Is she correct? Explain how you know.



R

6a. Steph's bus arrives at the station at 11:25am. Hafsa's bus arrives at 3.45pm.



Steph

My bus arrives after Hafsa's because eleven comes after three.

Is Steph Correct?  
Explain how you know.



R

6b. Sean's train arrives at the station at 8:05. Sinead's train arrives at 8:15.



Sean

I will definitely be catching my train before Sinead because 8:05 comes before 8:15.

Is Sean correct?  
Explain how you know.



R

## AM and PM

## AM and PM

7a. Write down an activity you might do during the times listed below. Tick to show if the time is a.m., p.m. or both.

Time	Activity	a.m.	p.m.	Both
12:26				
3:18				
7:49				
1:29				



PS

7b. Write down an activity you might do during the times listed below. Tick to show if the time is a.m., p.m. or both.

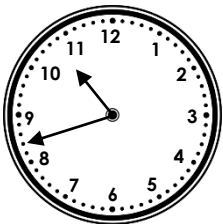
Time	Activity	a.m.	p.m.	Both
8:48				
7:16				
10:06				
9:22				



PS

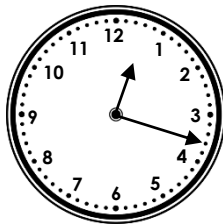
8a. Sunil has written the digital times to match the analogue clocks below.

Karate starts:



10:32am

Karate ends:



12:18am

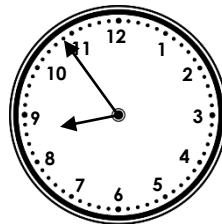
Is he correct? Explain how you know.



R

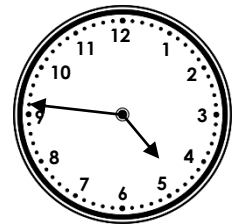
8b. Tara has written the digital times to match the analogue clocks below.

Pony day starts:



9:54am

Pony day ends:



4:46am

Is she correct? Explain how you know.



R

9a. Tiana arrives at the airport at 10:28. Her plane leaves at 10:15.



Tiana

I arrived early so that I had plenty of time to shop and eat before checking in for my flight.

Is Tiana Correct?  
Explain how you know.



R

9b. Tyrone is going on holiday. He has booked a train ticket for 12:47.



Tyrone

This means that I can eat lunch before I go and arrive at the beach in time to watch the sun set.

Is Tyrone correct?  
Explain how you know.



R

## Reasoning and Problem Solving AM and PM

### Developing

- 1a. a.m. = A and D; p.m. = B and C  
2a. He is incorrect. At 1:30, the time would become p.m. not a.m.  
3a. Anju is incorrect as we do not know whether the times are a.m. or p.m. For example a 9:10am plane would arrive before an 8:40pm plane.

### Expected

- 4a. a.m. = B; p.m. = C and D; Both = A  
5a. He is incorrect. At 12:35, the time would become p.m. not a.m.  
6a. Steph is incorrect as 11:25am comes before 3:45pm.

### Greater Depth

7a. Various answers, for example:

Time	Activity	a.m.	p.m.	Both
12:26	eat lunch		✓	
3:18	leave school		✓	
7:49	brush teeth			✓
1:29	sleep	✓		

- 8a. He is incorrect. Karate starts at 10:42am and ends at 12:18pm.  
9a. Tiana would be correct if she arrived at 10:28am and her flight is at 10:15pm but incorrect if both times were a.m. or p.m.

## Reasoning and Problem Solving AM and PM

### Developing

- 1b. a.m. = C and D; p.m. = A and B  
2b. Kelly is incorrect. 7:00 should be a.m. not p.m.  
3b. Jai is incorrect as 11:20am is in the morning and 1:10pm in in the afternoon.

### Expected

- 4b. a.m. = C; p.m. = B; Both = A and D  
5b. She is incorrect. 9:05 should be a.m. and 3:25 should be p.m.  
6b. Sean is incorrect as we do not know whether the times are a.m. or p.m. For example an 8:15am train would arrive before an 8:05pm train.

### Greater Depth

7b. Various answers, for example:

Time	Activity	a.m.	p.m.	Both
8:48	get to school	✓		
7:16	wash face			✓
10:06	assembly	✓		
9:22	get into bed		✓	

- 8b. She is incorrect. Pony day starts at 8:54am and ends at 4:46pm.  
9b. Tyrone is only correct if he has booked the ticket for 12:47pm.