

Reasoning and Problem Solving

Step 6: Compare Durations of Time

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 (Reasoning)

Developing Decide which is correct from two statements that compare durations of time. Comparing two durations of time using quarter past, half past or o'clock.

Expected Decide which is correct from two statements that compare durations of time. Comparing two durations of time using 5 minute increments.

Greater Depth Decide which is correct from two statements that compare durations of time. Comparing two durations of time using 1 minute increments.

Questions 2, 5 and 8 (Problem Solving)

Developing Read the time on two analogue clocks and determine how much time has passed between them. Calculate how many times an activity can be repeated within the duration of time. Using increments of 10 minutes.

Expected Read the time on two analogue clocks and determine how much time has passed between them. Calculate how many times an activity can be repeated within the duration of time. Using increments of 5 minutes.

Greater Depth Read the time on two analogue clocks and determine how much time has passed between them. Calculate how many times an activity can be repeated within the duration of time. Using increments of 1 minute.

Questions 3, 6 and 9 (Problem Solving)

Developing Complete the table using the given clues. Using 10 minute increments.

Expected Complete the table using the given clues. Using 5 minute increments.

Greater Depth Complete the table using the given clues. Using 1 minute increments.

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Compare Durations of Time

Compare Durations of Time

1a. Who is correct? Explain how you know.

1b. Who is correct? Explain how you know.

I left home at half past seven and arrived at school at eight o'clock. It took me longer to get to school.



Kevin

I left school at half past six and got home at quarter past seven. It took me longer to get home.



Nami



Jasmine

I left home at quarter past seven and arrived at school at half past seven. It took me longer to get to school.



Jing

I left school at seven o'clock and got home at half past seven. It took me longer to get home.



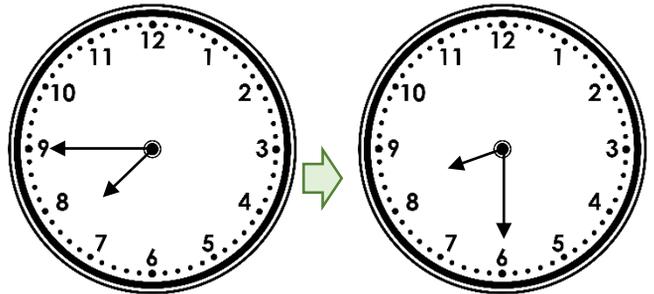
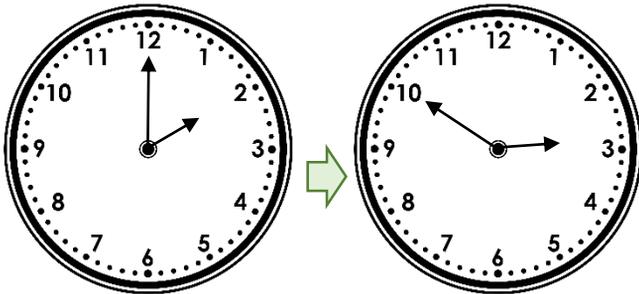
R



R

2a. It takes Jillian 10 minutes to decorate one cupcake. How many cupcakes can she decorate in this duration of time?

2b. It takes Kieran 15 minutes to read one chapter of his book. How many chapters can he read in this duration of time?



PS



PS

3a. Complete the table.
Journey A departs at 6 o'clock and lasts for half an hour.
Journey B lasts for 20 minutes.
Journey C is the longest by 10 minutes.

3b. Complete the table.
Journey A lasts for 30 minutes.
Journey B departs at 3 o'clock and lasts for 40 minutes.
Journey C is the shortest by 10 minutes.

	Depart Brighouse	Arrive Halifax
A		
B		10 minutes to 7
C	20 minutes to 7	

	Depart Leeds	Arrive Garforth
A		10 minutes past 3
B		
C	20 minutes past 3	



PS



PS

Compare Durations of Time

Compare Durations of Time

4a. Who is correct? Explain how you know.

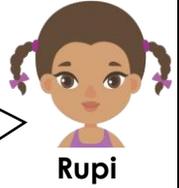
I left home at ten minutes past seven and arrived at school at quarter to eight. It took me longer to get to school.



I left home at twenty-five minutes past seven and arrived at school at five minutes past eight. It took me longer to get to school.

4b. Who is correct? Explain how you know.

I left at five minutes to six and arrived at the shop at twenty-five minutes to seven. It took me longer to get to the shop.



I left at five minutes to six and arrived at the shop at twenty-five minutes to seven. It took me longer to get to the shop.

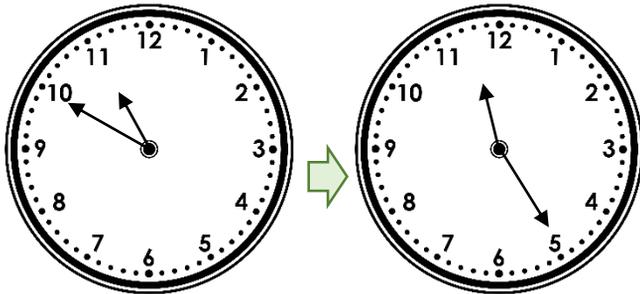


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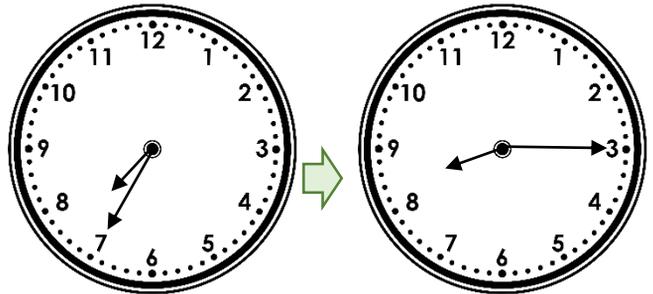
R

5a. It takes Annabelle 5 minutes to read 2 pages of her novel. How many pages can she read in this duration of time?



PS

5b. It takes Lucas 10 minutes to paint a picture from start to finish. How many pictures can he paint in this duration of time?



PS

6a. Complete the table.

Journey A departs at quarter past 2 and lasts for 55 minutes.

Journey B is the longest by 5 minutes.

Journey C lasts for 35 minutes.

Journey D is longer than C by 10 minutes.

	Depart Leeds	Arrive Halifax
A		
B		20 minutes past 3
C	25 minutes to 3	
D		5 minutes past 4



PS

6b. Complete the table.

Journey A is longer than D by 5 minutes.

Journey B is the same duration as A.

Journey C is the shortest by 5 minutes.

Journey D departs at quarter to 9 and lasts for 50 minutes.

	Depart Kings Cross	Arrive Piccadilly
A	Quarter to 7	
B		8 o'clock
C	20 minutes past 8	
D		



PS

Compare Durations of Time

Compare Durations of Time

7a. Who is correct? Explain how you know.

I left home at twelve minutes to nine and arrived at the library at three minutes past ten. My journey was longer.



Leona



Will

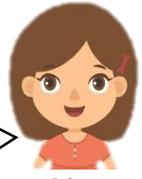
I left home at nine minutes past nine and arrived at the library at six minutes past ten. My journey was longer.



R

7b. Who is correct? Explain how you know.

I left school at twenty-two minutes past three and arrived home at twenty minutes to five. My journey was longer.



Gina



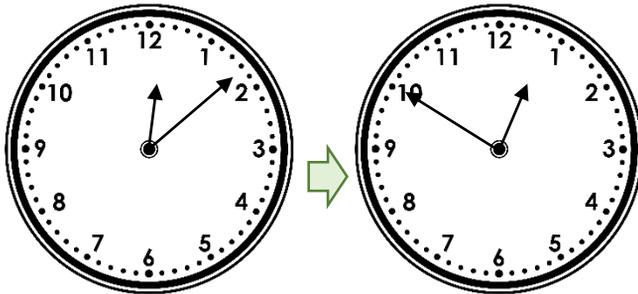
Liam

I left school at thirty-four minutes past three and arrived home at eighteen minutes to five. My journey was longer.



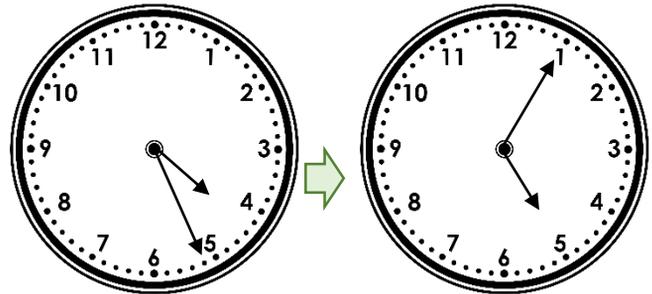
R

8a. It takes Tom 7 minutes to read 3 pages of his novel. How many pages can he read in this duration of time?



PS

8b. It takes Aleeza 13 minutes to walk half a kilometre. How many kilometres can she walk in this duration of time?



PS

9a. Complete the table.

Journey A is 6 minutes shorter than C.
 Journey B is the longest by 2 minutes.
 Journey C departs at 4 minutes past 7 and lasts for 1 hour and 19 minutes.
 Journey D lasts for 1 hour and 20 minutes.

	Depart Leeds	Arrive Halifax
A		24 minutes past seven
B	23 minutes to seven	
C		
D		12 minutes to nine



PS

9b. Complete the table.

Journey A lasts for 34 minutes.
 Journey B departs at 22 minutes past 3 and lasts for 37 minutes.
 Journey C is the longest by 8 minutes.
 Journey D is 1 minute shorter than B.

	Depart Kings Cross	Arrive Piccadilly
A	13 minutes to three	
B		
C		19 minutes to five
D	29 minutes to five	



PS

Reasoning and Problem Solving Compare Durations of Time

Developing

1a. Kevin is correct because it took him 30 minutes to get to school, while it took Jasmine 15 minutes.

2a. Jillian can decorate 5 cupcakes in 50 minutes.

3a.

	Depart Brighthouse	Arrive Halifax
A	6:00	6:30
B	6:30	10 minutes to 7
C	20 minutes to 7	7:20

Expected

4a. Rowan is correct because it took him 40 minutes to get to school, while it took Betty 35 minutes.

5a. Annabelle can read 14 pages in 35 minutes.

6a.

	Depart Leeds	Arrive Halifax
A	2:15	3:10
B	2:20	20 minutes past 3
C	25 minutes to 3	3:10
D	3:20	5 minutes past 4

Greater Depth

7a. Leona is correct because it took her 1 hour and 15 minutes to get to the library, while it took Will 57 minutes.

8a. Tom can read 18 pages in 42 minutes.

9a.

	Depart Leeds	Arrive Halifax
A	6:11	24 minutes past seven
B	23 minutes to seven	7:59
C	7:04	8:23
D	7:28	12 minutes to nine

Reasoning and Problem Solving Compare Durations of Time

Developing

1b. Nami is correct because it took her 45 minutes to get home from school, while it took Jing 30 minutes.

2b. Kieran can read 3 chapters in 45 minutes.

3b.

	Depart Leeds	Arrive Garforth
A	2:40	10 minutes past 3
B	3:00	3:40
C	20 minutes past 3	3:40

Expected

4b. Rupi is correct because it took her 40 minutes to get to the shop, while it took Kian 35 minutes.

5b. Lucas can paint 4 pictures in 40 minutes.

6b.

	Depart Kings Cross	Arrive Piccadilly
A	Quarter to 7	7:40
B	7:05	8 o'clock
C	20 minutes past 8	9:05
D	8:45	9:35

Greater Depth

7b. Gina is correct because it took her 1 hour and 18 minutes to get home, while it took Liam 1 hour and 8 minutes.

8b. Aleeza can walk 1.5km in 39 minutes.

9b.

	Depart Kings Cross	Arrive Piccadilly
A	13 minutes to three	3:21
B	3:22	3:59
C	3:56	19 minutes to five
D	29 minutes to five	5:07