

Varied Fluency

Step 9: Start and End Times

National Curriculum Objectives:

Mathematics Year 3: (3M4d) [Estimate and read time with increasing accuracy to the nearest minute](#)

Mathematics Year 3: (3M4f) [Compare durations of events \[for example to calculate the time taken by particular events or tasks\]](#)

Differentiation:

Developing Questions to support finding start and end times when given a duration of up to one hour. Times in increments of 5 minutes. 12 hour analogue and digital clocks used.

Expected Questions to support finding start and end times when given a duration of up to two hours. Times in increments of 5 minutes. 12 and 24 hour analogue and digital clocks used.

Greater Depth Questions to support finding start and end times when given any duration. Times in increments of 1 minute. 12 and 24 hour analogue and digital clocks used with some crossing between AM and PM.

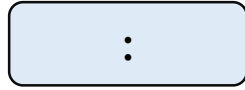
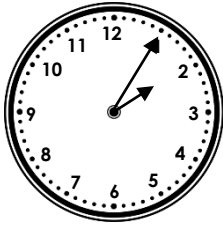
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Start and End Times

Start and End Times

1a. Break time lasts for 15 minutes. Complete the clock to show the end time.



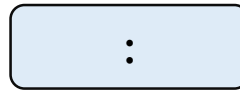
end



start

VF

1b. Arithmetic lasts for 35 minutes. Complete the clock to show the start time.



start



end

VF

2a I left the harbour at 4:25pm and sailed for 40 minutes. Circle the time that I arrived at the park.

5:05pm

3:45pm

5:00pm



VF

2a. My cookies finished baking at 10:15am after 20 minutes. Circle the time they started baking.

11:35am

10:55am

9:55am



VF

3a. Complete the table about summer camp activities.

Activity	Start time	Duration	End time
Foot golf	9:45am	35 minutes	
Finger painting	10:15am	55 minutes	



VF

3b. Complete the table about summer camp activities.

Activity	Start time	Duration	End time
Karate		25 minutes	2:10pm
Golf		45 minutes	3:20pm



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4a. Match the start times and duration to the correct end times.

A. Football Daily
Start: 10:25pm
Duration: 45 minutes

11:30am

B. Morning News
Start: 10:35am
Duration: 55 minutes

11:10pm

C. Nightly News
Start: 10:35pm
Duration: 50 minutes

11:25pm



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4b. Match the start times and duration to the correct end times.

A. Kids News Zone
Start: 3:15pm
Duration: 55 minutes

3:15pm

B. Afternoon News
Start: 3pm
Duration: 25 minutes

4:10pm

C. Cooking Show
Start: 2:30pm
Duration: 45 minutes

3:25pm

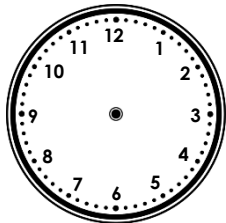


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Start and End Times

5a. Maths lasts for 1 hour 5 minutes. Draw the hands on the clock to show the end time.

09:15



start

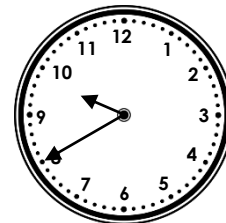
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Start and End Times

5b. Morning arithmetic lasts for 45 minutes. Complete the clock to show the start time.

:



start

end

VF

6a. I left home at 3:25pm and cycled for 1 hour 15 minutes. Circle the time that I arrived at the park.

4:45pm

3:40pm

4:40pm



VF

6b. I arrived home at 13:45 after a 1 hour and 25 minute journey. Circle the time that I left work.

12:15

12:20

15:10



VF

7a. Complete the table about summer camp activities.

Activity	Start time	Duration	End time
Yoga		65 minutes	10:25
Obstacle course	10:05	1 hour 35 minutes	
Sandcastle building	11:35	fifty-five minutes	



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7b. Complete the table about summer camp activities.

Activity	Start time	Duration	End time
Archery		1 hour 45 minutes	3pm
Knitting		1 hour 15 minutes	3:05pm
Quilling	14:35	1 hour 5 minutes	



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8a. Match the start times and duration to the correct end times.

A. Rugby Finals
Start: 12:30
Duration: 1hr 45 mins

13:15

B. Midday News
Start: 12:05
Duration: 1hr 10 mins

13:10

C. Lunch with Lucy
Start: 12:15
Duration: 55 minutes

14:15



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8b. Match the start times and duration to the correct end times.

A. Home Repairs
Start: 2:45pm
Duration: 1hr 20 mins

4:45pm

B. Afternoon News
Start: 15:05
Duration: 1hr 10 mins

4:05pm

C. Gino Cooks
Start: 3pm
Duration: 1hr 45 mins

16:15

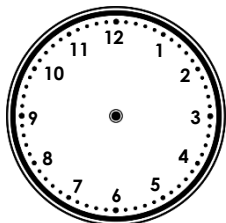


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Start and End Times

9a. PE lasts for 1 hour 23 minutes. Draw the hands on the clock to show the end time.

10:55



start

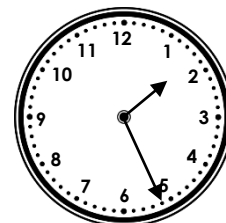
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Start and End Times

9b. Swimming lasts for 1 hour 7 minutes. Complete the clock to show the start time.

:



start

end

VF

10a. I left home at 16:52 and ran for 1 hour 28 minutes. Circle the time that I arrived back home.

17:20

6:20pm

6:20am



VF

10b. I arrived at the station at 14:47 after a 1 hour and 37 minute train journey. Circle the time I caught the train.

12:10

1:10am

13:10



VF

11a. Complete the table about summer camp activities.

Activity	Start time	Duration	End time
Archery		92 minutes	10:27
Athletics	10:08	1 hour 22 minutes	
Basketball	11:50	forty-seven minutes	



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11b. Complete the table about summer camp activities.

Activity	Start time	Duration	End time
Swimming	13:18	1 hour 33 minutes	
Knitting		1 hour 19 minutes	3:20pm
Paint balling	15:23	1 hour 51 minutes	



VF

12a. Match the start times and duration to the correct end times.

A. Little Sister
Start: 18:33
Duration: 59 mins

19:20

B. Bake Up
Start: 18:03
Duration: 1hr 17 mins

19:25

C. Country Walks
Start: 18:58
Duration: 27 minutes

19:32



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12b. Match the start times and duration to the correct end times.

A. Movie Madness
Start: 2:57pm
Duration: 1hr 29 mins

17:44

B. Afternoon News
Start: 15:08
Duration: 1hr 13 mins

16:26

C. Kids Zone
Start: 4:03pm
Duration: 1hr 41 mins

16:21



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Varied Fluency Start and End Times

Developing

- 1a. Clock should show 2:20pm
- 2a. 5:05pm
- 3a. 10:20am, 11:10am
- 4a. A is 11:10pm, B is 11:30am, C is 11:25pm

Expected

- 5a. Hands should show 10:20
- 6a. 4:40pm
- 7a. 09:20, 11:40, 12:30
- 8a. A is 14:15, B is 13:15, C is 13:10

Greater Depth

- 9a. Hands should show 12:18
- 10a. 6:20pm
- 11a. 08:55, 11:30, 12:37
- 12a. A is 19:32, B is 19:20, C is 19:25

Varied Fluency Start and End Times

Developing

- 1b. Clock should show 9:05am
- 2b. 9:55am
- 3b. 1:45pm, 2:35pm
- 4b. A is 4:10pm, B is 3:25pm, C is 3:15pm

Expected

- 5b. Clock should show 08:55 or 8:55am
- 6b. 12:20
- 7b. 1:15pm, 1:50pm, 15:40
- 8b. A is 4:05pm, B is 16:15, C is 4:45pm

Greater Depth

- 9b. Clock should show 12:19
- 10b. 13:10
- 11b. 14:51, 2:01pm, 17:14
- 12b. A is 16:26, B is 16:21, C is 17:44