

# Varied Fluency

## Step 1: Hours, Minutes and Seconds

### National Curriculum Objectives:

Mathematics Year 4: (4M4c) [Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days](#)

### Differentiation:

**Developing** Questions to support conversions of hours, minutes and seconds in multiples of 10.

**Expected** Questions to support conversions of whole, half, quarter and multiples of 5 and 10 hours, minutes and seconds using two consecutive units of time, i.e. 5 hours and 35 minutes.

**Greater Depth** Questions to support conversions of mixed durations of hours, minutes and seconds using any two units of time and unconventional partitioning, i.e. 5 hours and 90 minutes.

More [Year 4 Time](#) resources.

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# Hours, Minutes and Seconds

# Hours, Minutes and Seconds

1a. Fill in the gaps.

Hours	Minutes
1 hour	
	120
2 hours 30 minutes	
	180
3 hours 30 minutes	



VF

1b. Fill in the gaps.

Minutes	Seconds
half a minute	
	90
3 minutes	
	240
4 minutes 30 seconds	



VF

2a. Use  $<$ ,  $>$  or  $=$  to make the statement correct.

2 minutes  90 seconds



VF

2b. Use  $<$ ,  $>$  or  $=$  to make the statement correct.

1 hour 30 minutes  150 minutes



VF

3a. Match the times together to find the odd one out.

2 minutes  
30 seconds

150  
seconds

230  
seconds



VF

3b. Match the times together to find the odd one out.

240  
minutes

210  
minutes

4 hours



VF

4a. Which children were quicker in week 2?

Name	Week 1	Week 2
Jay	1 minute	30 seconds
Tim	180 seconds	1 minute 30 seconds
Aya	3 minutes 30 seconds	240 seconds



VF

4b. Which child was quicker in week 1?

Name	Week 1	Week 2
Bo	1 hour 30 minutes	120 minutes
Esa	180 minutes	2 hours
Ivan	5 hours	300 minutes



VF

# Hours, Minutes and Seconds

# Hours, Minutes and Seconds

5a. Fill in the gaps.

Hours	Minutes
1 hour 40 minutes	
	15
2 hours 10 minutes	
	170
3 hours 20 minutes	



VF

5b. Fill in the gaps.

Minutes	Seconds
	70
1 minute 25 seconds	
	165
3 minutes and 40 seconds	
	255



VF

6a. Use  $<$ ,  $>$  or  $=$  to make the statement correct.

3 minutes 15 seconds  190 seconds



VF

6b. Use  $<$ ,  $>$  or  $=$  to make the statement correct.

4 hours 30 minutes  270 minutes



VF

7a. Match the times together to find the odd one out.



VF

7b. Match the times together to find the odd one out.



VF

8a. Which children were quicker in week 2?

Name	Week 1	Week 2
Joey	3 hours 5 minutes	170 minutes
Sam	260 minutes	4 hours
Nyab	5 hours 10 minutes	305 minutes



VF

8b. Which children were quicker in week 1?

Name	Week 1	Week 2
Barney	2 minutes 50 seconds	180 seconds
Jibrail	6 minutes	275 seconds
Tia	240 seconds	4 minutes 5 seconds



VF

# Hours, Minutes and Seconds

# Hours, Minutes and Seconds

9a. Fill in the gaps.

Minutes	Seconds
	118
2 minutes 64 seconds	
	239
4 minutes 97 seconds	
	351



VF

9b. Fill in the gaps.

Hours	Minutes
3 hours 26 minutes	
	288
5 hours 42 minutes	
	399
7 hours 3 minutes	



VF

10a. Use  $<$ ,  $>$  or  $=$  to make the statement correct.

6 hours 56 minutes  426 minutes



VF

10b. Use  $<$ ,  $>$  or  $=$  to make the statement correct.

533 seconds  8 minutes 93 seconds



VF

11a. Match the times together to find the odd one out.

3 hours 32 minutes      332 minutes      212 minutes

234 seconds      3 minutes 54 seconds



VF

11b. Match the times together to find the odd one out.

6 minutes 49 seconds      4 hours 59 minutes      299 minutes

649 seconds      409 seconds



VF

12a. Which children were quicker in week 1 and by how much?

Name	Week 1	Week 2
Juno	5 hours 37 minutes	237 minutes
Mark	6 hours 49 minutes	419 minutes
Ivy	438 minutes	7 hours 98 minutes



VF

12b. Which children were quicker in week 1 and by how much?

Name	Week 1	Week 2
Rafi	552 seconds	9 minutes 88 seconds
Jim	8 minutes 26 seconds	516 minutes
Erin	574 seconds	9 minutes 54 seconds



VF

## Varied Fluency Hours, Minutes and Seconds

### Developing

1a.

Hours	Minutes
1 hour	60
2 hours	120
2 hours 30 minutes	150
3 hours	180
3 hours 30 minutes	210

2a. >

3a. 230 seconds

4a. Jay and Tim

### Expected

5a.

Hours	Minutes
1 hour 40 minutes	100
quarter of an hour	15
2 hours 10 minutes	130
2 hours 50 minutes	170
3 hours 20 minutes	200

6a. >

7a. 140 minutes

8a. All three children

### Greater Depth

9a.

Minutes	Seconds
1 minute 58 seconds	118
2 minutes 64 seconds	184
3 minutes 59 seconds	239
4 minutes 97 seconds	337
5 minutes 51 seconds	351

10a. <

11a. 332 minutes

12a. Mark – week 1 by 10 minutes;  
Ivy – week 1 by 80 minutes.

## Varied Fluency Hours, Minutes and Seconds

### Developing

1b.

Minutes	Seconds
half a minute	30
1 minute 30 seconds	90
3 minutes	180
4 minutes	240
4 minutes 30 seconds	270

2b. <

3b. 210 minutes

4b. Bo

### Expected

5b.

Minutes	Seconds
1 minute 10 seconds	70
1 minute 25 seconds	85
2 minutes 45 seconds	165
3 minutes and 40 seconds	220
4 minutes 15 seconds	255

6b. =

7b. 145 seconds

8b. Barney and Tia

### Greater Depth

9b.

Hours	Minutes
3 hours 26 minutes	206
4 hours 48 minutes	288
5 hours 42 minutes	342
6 hours 39 minutes	399
7 hours 3 minutes	423

10b. <

11b. 649 seconds

12b. Rafi – week 1 by 76 seconds;  
Jim – week 1 by 10 minutes;  
Erin – week 1 by 20 minutes.