

Hours, Minutes and Seconds

1. Cross the durations that have been incorrectly converted.

Time in minutes	Time in seconds	Incorrect (X)
3 minutes	300 seconds	
1 minute 10 seconds	70 seconds	
2 minutes 45 seconds	165 seconds	

VF

4. Mr Coulson challenges the children to get ready for PE in under 5 minutes.



Week 1	305 seconds
Week 2	295 seconds
Week 3	315 seconds
Week 4	310 seconds
Week 5	300 seconds

Zahara thinks that 3 out of the 5 weeks they are faster than 5 minutes. Do you agree? Explain how you know.

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2. Put these durations in order from shortest to longest.

A.

00:01:39

B.

79 seconds

C.

1 minute 59 seconds

D.

00:02:09

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5. What time will the stopwatch show in another 145 seconds?

00 : 04 : 50

___ : ___ : ___

What time will the stopwatch show after a further 2 minutes and 45 seconds?

___ : ___ : ___

PS

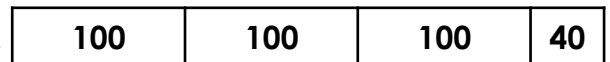
3. Put the following stopwatch times in the correct place in the table. Not all of them can be sorted.

	Less than 90 seconds	More than 100 seconds
00:01:35		
00:01:20		
00:02:05		
00:01:05		
00:01:55		

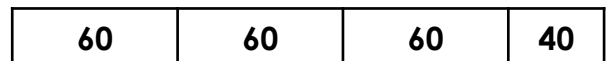
VF

6. Which bar model represents 3 minutes 40 seconds?

A.



B.



Explain how you know.

R

Hours, Minutes and Seconds

1.

Time in minutes	Time in seconds	Incorrect (X)
3 minutes	300 seconds	X
1 minute 10 seconds	70 seconds	
2 minutes 45 seconds	165 seconds	

2. B, A, C, D

3.

Less than 90 seconds	More than 100 seconds
00:01:20	00:02:05
00:01:05	00:01:55

00:01:35 cannot be sorted as this is 95 seconds which is neither less than 90 seconds nor more than 100 seconds.

4. I disagree with Zahara as the children only managed to get ready for PE one time in under 5 minutes. 5 minutes is the same as 300 seconds and week 2 (295 seconds) was the only week the children were faster than 300 seconds.

5. In another 145 seconds the stopwatch will show 00:07:15 as 145 seconds is the same as 2 minutes and 25 seconds. In another 2 minutes and 45 seconds the stopwatch will show 00:10:00.

6. Bar model B shows 3 minutes 40 seconds. 1 minute is the same as 60 seconds, bar model B has three sections with 60 and one with 40. This is the same as 3 minutes and 40 seconds. Bar model A represents 340 seconds which is the same as 5 minutes and 40 seconds.