

# Homework/Extension

## 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:

Questions 1, 4 and 7 (Varied Fluency)

**Developing** Use the digit cards to complete the conversion statements with conversions of hours, minutes and seconds in multiples of 10.

**Expected** Use the digit cards to complete the conversion statements, with two consecutive units of time, i.e. 5 hours and 35 minutes.

**Greater Depth** Use the digit cards to complete the conversion statements, with any two units of time and unconventional partitioning, i.e. 5 hours and 90 minutes.

Questions 2, 5 and 8 (Varied Fluency)

**Developing** Circle the longest duration using conversions of hours, minutes and seconds in multiples of 10.

**Expected** Circle the longest duration using conversions of hours, minutes and seconds, using two consecutive units of time, i.e. 5 hours and 35 minutes.

**Greater Depth** Circle the longest duration using any two units of time and unconventional partitioning, i.e. 5 hours and 90 minutes.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

**Developing** Order the given amounts of time using conversions of hours, minutes and seconds in multiples of 10.

**Expected** Order the given amounts of time using conversions of hours, minutes and seconds, using two consecutive units of time, i.e. 5 hours and 35 minutes.

**Greater Depth** Order the given amounts of time 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

1. Use the digit cards to complete the statements. You can use the cards as many times as you want.

A. 1 minute and 10 seconds is the same as   seconds.

7

B. 90 seconds is the same as  minute and   seconds.

0

C.  hour and 40 minutes is the same as 100 minutes.

1

D. 180 minutes is the same as  hours.

3



VF  
HW/Ext

2. Circle the TV programme that has the longest duration.



90 minutes



1 hour and 20 minutes



1 hour and 40 minutes



VF  
HW/Ext

3. Use the swimmers' times to work out who came 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> in the race. Fill in the medals with their position number.

 David  
5 minutes 20 seconds

 Rayon  
300 seconds

 Simon  
330 seconds



RPS  
HW/Ext

# Hours, Minutes and Seconds

4. Use the digit cards to complete the statements. You can use the cards as many times as you want.

A. 1 minute and 32 seconds is the same as   seconds.

6

B. 123 seconds is the same as  minutes and  seconds.

2

C.  hours and 4 minutes is the same as 124 minutes.

9

D. 186 minutes is the same as  hours and  minutes.

3



VF  
HW/Ext

5. Circle the film that has the longest duration.



1 hour 25 minutes



79 minutes



83 minutes



VF  
HW/Ext

6. Use the runners' times to work out who came 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> in the race. Fill in the medals with their position number.

 Zoe  
3 minutes 12 seconds

 Joshua  
181 seconds

 Ashley  
3 minutes 2 seconds



RPS  
HW/Ext

# Hours, Minutes and Seconds

7. Use the digit cards to complete the statements. You can use the cards as many times as you want.

A. 1 hour and 93 minutes is the same as    minutes.

1

B. 9 hours and 600 seconds is the same as    minutes.

5

C.  hours and 402 minutes is the same as 582 minutes.

3

D. 300 minutes and 180 seconds is the same as  hours and  minutes.

0



VF  
HW/Ext

8. Circle the balloon that stayed in the air for the longest duration.



25 minutes  
and 265  
seconds



23 minutes  
and 360  
seconds



28 minutes  
and 100  
seconds



VF  
HW/Ext

9. Use the footballers' time to score a goal in a match to work out who came 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> in the race to score. Fill in the medals with their position number.



**Ferdus**  
581 seconds



**Ali**  
9 minutes



**Barham**  
8 minutes 108 seconds



RPS  
HW/Ext

## Homework/Extension

### Hours, Minutes and Seconds

#### Developing

1. **A. 70 seconds; B. 1 minute and 30 seconds; C. 1 hour; D. 3 hours.**
2. **1 hour and 40 minutes.**
3. **1<sup>st</sup> – Rayon; 2<sup>nd</sup> – David; 3<sup>rd</sup> – Simon.**

#### Expected

4. **A. 92 seconds; B. 2 minutes and 3 seconds; C. 2 hours; D. 3 hours and 6 minutes.**
5. **1 hour and 25 minutes.**
6. **1<sup>st</sup> – Joshua; 2<sup>nd</sup> – Ashley; 3<sup>rd</sup> – Zoe.**

#### Greater Depth

7. **A. 153 minutes; B. 550 minutes; C. 3 hours; D. 5 hours and 3 minutes.**
8. **28 minutes and 100 seconds.**
9. **1<sup>st</sup> Ferdaus; 2<sup>nd</sup> – Ali; 3<sup>rd</sup> Barham.**