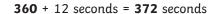
- 1)
- a) 2 minutes = 120 seconds
- b) 6 minutes = 360 seconds
- c) 300 seconds = 5 minutes
- d) 8 minutes = 480 seconds
- 2) A and 4
 - B and 2
 - C and 3
 - D and 1

3)

a) 6×60 seconds = **360** seconds



6 minutes and 12 seconds = 372 seconds



180 seconds + 18 seconds = 198 seconds

3 minutes and 18 seconds = 198 seconds

4 × 60 seconds = 240 seconds

240 seconds + 27 seconds = 267 seconds

4 minutes and 27 seconds = 267 seconds

8 × 60 seconds = 480 seconds

480 seconds + 46 seconds = 526 seconds

8 minutes and 46 seconds = 526 seconds

1)



- a) Bartek has assumed that there are 100 seconds in one minute when there are actually 60 seconds in one minute.
- b) It takes 185 seconds to walk to school, which means it takes 370 seconds in total. This is also 6 minutes and 10
- 2) Abi is incorrect. There are only two mistakes. Here are the incorrect statements.

4 minutes	<	200 seconds

4 minutes is equal to 240 seconds so is greater than 200 seconds.

147 seconds	>	2 minutes and 27 seconds
-------------	---	-----------------------------

147 seconds is equal to 2 minutes and 27 seconds, not greater than.

- 3) Jia is incorrect. The first two are in the correct order but the last two are the wrong way round.
 - 115 seconds equals 1 minute and 55 seconds, which is slower than 1 minute and 38 seconds.
- 1) 215 seconds and $3\frac{1}{4}$ minutes are in the incorrect columns.



- 2) Tuesday, Wednesday, Friday
- 3)
- a) 9 lengths
- b) 368 seconds



1) Fill in the missing numbers.



	minutes =
--	-----------

d) 8 minutes =



seconds

2) Match each time in words to the equivalent digital time.

Α

1

A and _____

two hundred and five seconds

2

B and _____

C

one hundred and forty-five seconds

3

C and _

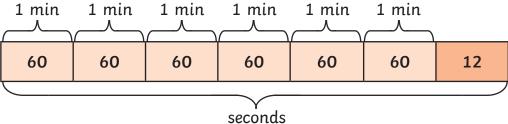
D

three hundred and ten seconds

4

D and _____

3) This bar model has been used to represent 6 minutes and 12 seconds in seconds.



S

 α) Fill in the missing numbers.

6 × 60 seconds = seconds

S

seconds + 12 seconds =



6 minutes and 12 seconds =



seconds

b) Use this bar model method to help you convert these times.

3 minutes and 18 seconds = _____ seconds

4 minutes and 27 seconds = _____ seconds

8 minutes and 46 seconds = _____ seconds





It takes 3 minutes and 5 seconds to walk to school. This is 305 seconds. I think it takes 610 seconds to walk to school and back.

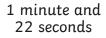


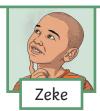
- **b)** How long does it take Bartek to get to school and back in seconds? Explain how you know.
- 2) Is Abi correct? Explain your reasoning.



2 minutes and 14 seconds	=	134 seconds
97 seconds	>	1 minute and 25 seconds
4 minutes	<	200 seconds
147 seconds	>	2 minutes and 27 seconds
3 minutes and 20 seconds	<	210 seconds

3) Jia's friends have had a running race. She has placed them in order from the fastest to the slowest.





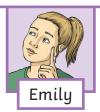
92 seconds



115 seconds



1 minute and 38 seconds



Is Jia correct? Explain why. _____





1) These times have been sorted into the table. There are two mistakes. Find them.

$< 3\frac{1}{2}$ minutes	>210 seconds
200 seconds	3 minutes and 40 seconds
209 seconds	3 minutes and 35 seconds
215 seconds	$3\frac{1}{4}$ minutes
188 seconds	$3\frac{3}{4}$ minutes

2) Year 3 were challenged by their teacher to work silently on their paintings for more than 6 minutes. On which days did they manage to do so?

Monday	357 seconds
Tuesday	384 seconds
Wednesday	362 seconds
Thursday	344 seconds
Friday	425 seconds

3) Joseph is completing a sponsored swim. Here are the lengths of time he swam on each day.

day 1	3 minutes and 31 seconds
day 2	464 seconds
day 3	6 minutes and 45 seconds
day 4	579 seconds
day 5	5 minutes and 49 seconds

t) It takes exactly 45 seconds for Joseph to swim one length of the pool. How many full lengths did he swim on day 3?

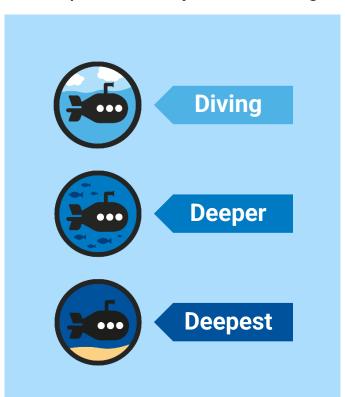
b) What is the difference, in seconds, between the longest and shortest amount of time that Joseph spent swimming?





Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:



These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.

National Curriculum Aim

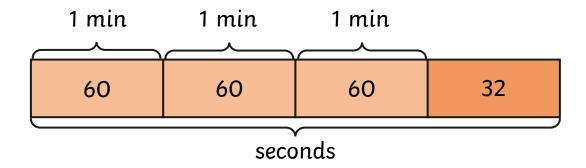
• Know the number of seconds in a minute and the number of days in each month, year and leap year



Fill in the missing numbers.



This bar model has been used to represent 3 minutes and 32 seconds in seconds.



Fill in the missing numbers.



Abi

I think there are two mistakes in these comparison statements.



1 minute and 14 seconds	=	74 seconds
93 seconds	>	1 minute and 23 seconds
6 minutes	11	300 seconds
151 seconds	>	2 minutes and 27 seconds

Is Abi correct? Explain your reasoning.

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Jia

My friends have had a bike race.

I have placed them in order from the ske

I have placed them in order from the slowest to fastest.



2 minutes and 22 seconds



2 minutes and 17 seconds



138 seconds



2 minutes and 12 seconds

Is Jia correct? Explain your thoughts.



Joseph is completing a sponsored football keepy-up challenge. Here is the time of his most successful effort on each day.



day 1	2 minutes and 31 seconds
day 2	364 seconds
day 3	3 minutes and 45 seconds
day 4	420 seconds
day 5	6 minutes and 11 seconds

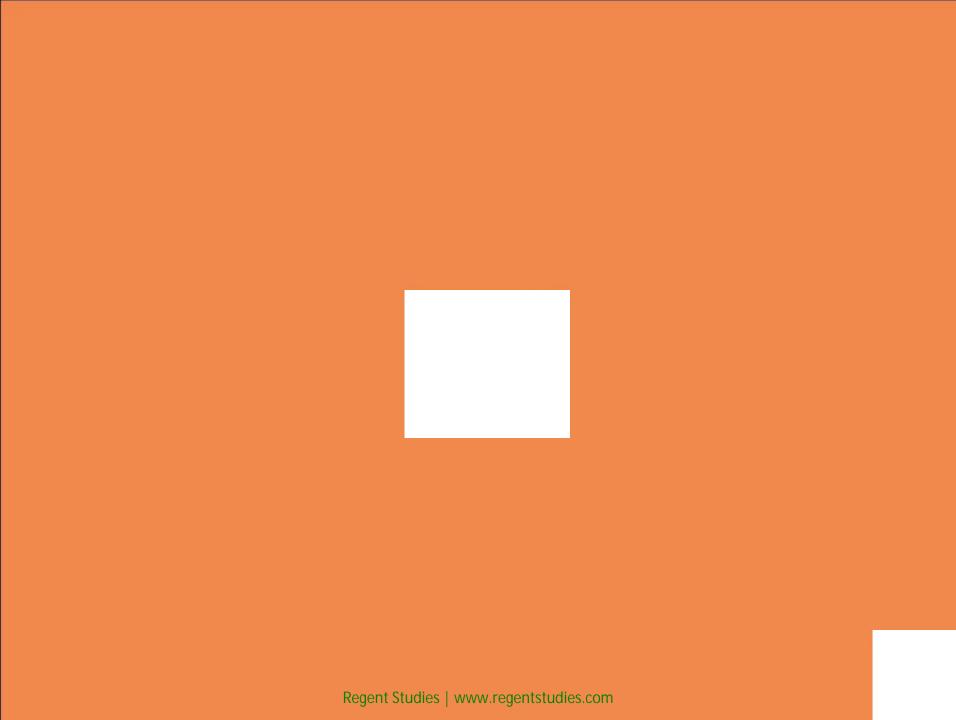
On which days did he manage to do keepy-ups for longer than 6 minutes?

What is the difference, in seconds, between the longest and the shortest time that Joseph spent doing keepy-ups?

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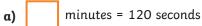
Dive in by completing your own activity! 1) Fill in the missing numbers. d) 8 minutes 2) Match each time in words to the equivalent digital time. A one hundred and twenty-five seconds 00:05:10 A and 00:03:25 B and Explain how two hundred and five seconds 00:02:25 C and one hundred and forty-five seconds three hundred and ten seconds 00:02:05 3) This bar model has been used to represent 6 minutes and 12 seconds in seconds 134 seconds 1 minute and 25 seconds 200 seconds seconds minutes and 27 seconds a) Fill in the missing numbers. 210 seconds from the fastest to seconds + 12 seconds seconds 6 minutes and 12 seconds = b) Use this bar model method to help you convert these times 3 minutes and 18 seconds = _____ seconds 4 minutes and 27 seconds = __





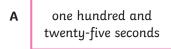
Minutes and Seconds 1) Fill in the missing numbers.



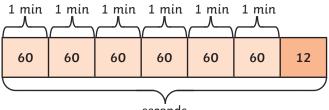




2) Match each time in words to the equivalent digital time.



3) This bar model has been used to represent 6 minutes and 12 seconds in seconds.



seconds

a) Fill in the missing numbers.

____ seconds + 12 seconds = ____ seconds

6 minutes and 12 seconds = _____ seconds

b) Use this bar model method to help you convert these times.

3 minutes and

4 minutes and





8 minutes and 46 seconds = _____ seconds



Minutes and Seconds

1) Fill in the missing numbers.



- a) minutes = 120 seconds
- **b)** 6 minutes = seconds
- c) 300 seconds = minutes
- d) 8 minutes = seconds
- 2) Match each time in words to the equivalent digital

A one hundred and twenty-five seconds

. 00:05:10

b two hundred and five seconds

00:03:25

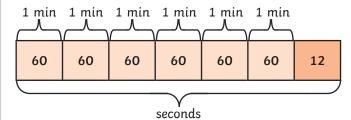
c one hundred and forty-five seconds

3 00:02:25

three hundred and ten seconds

4 00:02:05

3) This bar model has been used to represent 6 minutes and 12 seconds in seconds.



a) Fill in the missing numbers.

_____ seconds + 12 seconds = _____ seconds

6 minutes and 12 seconds = _____ seconds

b) Use this bar model method to help you convert these times.

3 minutes and

18 seconds = ____ seconds

4 minutes and

27 seconds = _____ seconds

8 minutes and

46 seconds = _____ seconds

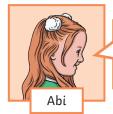
1)



It takes 3 minutes and 5 seconds to walk to school. This is 305 seconds. I think it takes 610 seconds to walk to school and back.

- a) What mistake has Bartek made?
- **b)** How long does it take Bartek to get to school and back in seconds? Explain how you know.

2)



I think there are three mistakes in these comparison statements.

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97 seconds	^	1 minute and 25 seconds
4 minutes	<	200 seconds
147 seconds	^	2 minutes and 27 seconds
3 minutes and 20 seconds	<	210 seconds

Is Abi correct? Explain your reasoning.

3) Jia's friends have had a running race. She has placed them in order from the fastest to the slowest.



Zeke

1 minute and 22 seconds



Hari

92 seconds



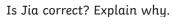
Priya

115 seconds



Emily

1 minute and 38 seconds





Minutes and Seconds

1)



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188 seconds	3 ³ / ₄ minutes

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Minutes and Seconds

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