Steps to Success

Lockdown		
Date	<u>02.03.21</u>	
Subject/s	<u>Maths</u>	
Learning Objective	To convert between units of time	

				CA
				SA Q M
Success Criteria	I know			
<b>√!</b> ■	60 seconds = 1 minute			
▼ 🎍 🛌	1 hour = 60 minutes			
	7 days = 1 week 52 weeks = 1 year			
	365 days = 1 year			
	I can use my knowledge o	f multiples to convert bet	ween units of	time
Support	Independent	Adult Support (		roup Work
Complete the table.				
Days	Weeks/ Weeks and Day	rs		
Days 42 days	Weeks/ Weeks and Day	rs		
	Weeks/ Weeks and Day 5 weeks and 5 days	rs		
		rs .		
	5 weeks and 5 days	rs .		
42 days	5 weeks and 5 days			
42 days 100 days 1 hour = 60 mir	5 weeks and 5 days 10 weeks and 5 days nutes 1 minute = 60 secon			
42 days  100 days  1 hour = 60 minutes this information to the second se	5 weeks and 5 days 10 weeks and 5 days nutes 1 minute = 60 seconcomplete the conversions.			
42 days  100 days  1 hour = 60 minutes = 1 and	5 weeks and 5 days 10 weeks and 5 days nutes 1 minute = 60 seconcomplete the conversions.			
100 days  1 hour = 60 minutes = 1 and and a minutes = 4 minutes	5 weeks and 5 days  10 weeks and 5 days  nutes 1 minute = 60 secon complete the conversions.			
100 days  1 hour = 60 minutes = 1 and 40 = 4 minutes = 2 and 24 = 2	5 weeks and 5 days  10 weeks and 5 days  nutes 1 minute = 60 secon complete the conversions.	ds		

https://vimeo.com/436507740

# Fluency

<b>A</b>					
Copy and complete.					
seconds = 3 minutes	eeks				
2 300 seconds = minutes 6 days = 5 we	eeks 10 months = 20 years				
minutes = 7 hours  21 days = w	veeks 00 months = years				
4 120 minutes = hours 8 70 days = v	veeks 96 months = years				
B How many complete weeks and days are there in	:				
a) April b) May?					
14 How many minutes are there in two and a half he	ours?				
B	C				
	Advisor/s manathon time is 2 hours				
Copy and complete.	1 Adrian's marathon time is 2 hours 58 minutes and 39 seconds. This is 213				
seconds = 1 minute 47 seconds	seconds faster than his previous best				
2 500 seconds = minutes seconds	time. What was his previous best time?				
minutes = 2 hours 35 minutes	2 It is Tuesday. There are 100 days until				
419 minutes = hours minutes	Christmas Day.				
	a) What is the date that Tuesday?				
hours = 5 days 17 hours	b) What day is Christmas Day?				
6 100 hours = days hours					
days = 2 weeks 3 days	3 Ivan leaves Moscow at 10:27 on 26th June. He arrives in Vladivostock at 16:05				
— 2-d luke Harri base bis					
8 40 days = weeks days	taken in days, hours and minutes?				
months = 3 years 6 months					
10 70 months = years months	4 A machine makes one bolt every second.				
	How long will it take to make 10 000				
There are exactly 13 complete weeks in	bolts?				
the first three months of a year. Is it a leap	5 How many weeks and days are there in:				
year?	a) the first 4 months of 2020				
12 A ship leaves port at 14:45 on Sunday.	b) the last 6 months of 2020?				
It returns at 09:20 on Wednesday. How	by the last of months of Event				
long was the voyage in days, hours and minutes?	6 How many hours are there in July?				

### <u>Answers</u>

## Page 100

### Α

1 180	42	<b>7</b> 3	10 240
<b>2</b> 5	<b>5</b> 14	8 10	11 5
3 420	6 35	9 48	128

- 13 a) 4 weeks 2 days b) 4 weeks 3 days
- 14 150

### В

1 107 secs.	7 17 days
2 8 mins, 20 secs.	8 5 weeks 5 days
3 155 mins.	9 42 months
4 6 hours 59 mins.	10 5 years 10 months
5 137 hours	11 It is a leap year
6 4 days 4 hours	12 2 days 18 hours 35 mins.

### C

- 1 3 hours 2 mins. 12 secs.
  2 a) 16th September
  - b) Thursday
- 3 6 days 5 hours 38 mins.
- 4 2 hours 46 mins. 40 secs.
- 5 a) 17 weeks 2 days
  - b) 23 weeks 3 days
- 6 744 hours

# Problem Solving and Reasoning

Use it!



Explain it!



Three children are running a race.

- Tim finishes the race in 3 minutes 5 seconds.
- Lila finishes the race in 192 seconds.
- Pip finishes the race in 2 minutes and 82 seconds.

Who finishes the race first?



Use it!



Lucy's birthday is in March.
Jason's birthday is in April.
Lucy is 96 hours older than Jason.
What dates could Lucy's and Jason's birthdays be?



# Answers Tim: 3 min 5 s Lila: 3 min 12 s Pip: 3 min 22 s Tim finishes the race first. Lucy: 28th March, 29th March, 30th March, 31st March Jason: 1st April, 2nd April, 3rd April, 4th April Children choose

dates 4 days apart.

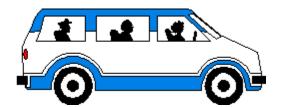
# Further Challenge

A group of 10 students are on a field trip when their bus breaks down 40 miles away from the school.

A teacher takes 5 of them back to school in her car, travelling at an average speed of 40 miles per hour.

The other 5 students start walking towards school at a steady 4 miles per hour.





The teacher drops the 5 at school, then immediately turns around and comes back for the others, again travelling at a steady speed of 40 miles per hour.

How far have the students walked by the time the car reaches them?