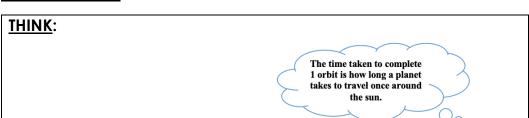
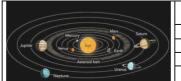
	Year 5 maths — Summer 1 Week beginning: 18.5.20						
Theme	Measurements Converting Units of Time			Measurements Telling The Temperature			
Factual fluency (to aid fluency)	Practise converting units of time here	Practise writing out your 60 times table	Practise adding time <u>here</u>	Practise counting on in 24s	Starting on zero count back in 1s, then try it again starting on 5 and then start on -20 and count on in 2s.		
	(Lesson 1 resources below) MAKING LINKS: Last week we converted between units for measuring mass.	(Lesson 2 resources below) MAKING LINKS: Yesterday we converted between weeks and days.	(Lesson 3 resources below) MAKING LINKS: Yesterday we converted between hours and minutes.	(Lesson 4 resources below) MAKING LINKS: Yesterday we converted between minutes and seconds.	(Lesson 5 resources below) MAKING LINKS: Yesterday we converted between hours and days.		
	THINK: (support below) Can you help me with this problem?	THINK: (support below) Can you help me with this problem?	THINK: (support below) Can you help me with this problem?	THINK: (support below) Can you help me with this problem?	THINK: (support below) Can you help me with this problem?		
Problem/ activity of the day Remember just like in class, you can still show the depth of your knowledge LINK	How many weeks does each planet take to complete 1 orbit of the sun? SEE: (model below)	ETTAR: WARS	Joe, Tom and Darren ran a race together. Darren won the race.	A train journey from Beijing to Moscow takes 2h and 20mins.	Stockholm Stoc		
	We can solve this problem by dividing the number of days by 7 because there are 7 days in a week.	Julie and Harry want to watch two Star Wars films; The Force Awakens and The Last Jedi. The Last Jedi is 50 mins shorter than The Force Awakens. Together, both films run for 3h 50 mins. How long is each film? SEE: (model below) We can solve this problem	Darren took 95 seconds. Is it possible to find out how long Joe and Tom took? SEE: (model below)	The train leaves Moscow on the 11 th and 25 th of each month. Find the arrival date.	How cold are the four cities in Degrees Celsius - °C SEE: (model below) To solve these problems, you need to know that each small interval is worth 1°c. Watch the lesson video here.		
	today to solve the other problems below.		We can solve this problem using a bar model. Watch the lesson video <u>here</u> .	We can solve this problem by working out the number of whole days in 210 hours and 20 minutes. A calendar will			
	using a bar model. Watch the video here . DO: Use what you have learnt today to solve the other problems below.	<u>DO:</u> Use what you have learnt today to solve the other problems below.	also be useful today. Watch the lesson video here. DO: Use what you have learnt today to solve the other problems below.	<u>DO:</u> Use what you have learnt today to solve the other problems below.			
Methods, tips, clues & checks	Day 1 resources and answers (below)	Day 2 resources and answers (below)	Day 3 resources and answers (below)	Day 4 resources and answers (below)	Day 5 resources and answers (below)		

DAY 1 RESOURCES:

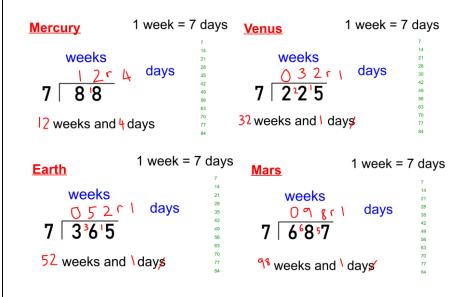




		\sim 0	
Planet	Distance from the	Time taken to	
	Sun	complete 1 orbit	
Mercury	58 million km	88 days	
Venus	108 million km	225 days	
Earth	150 million km	365 days	
Mars	228 million km	687 days	

How many weeks does each planet take to complete 1 orbit of the Sun?

SEE: Don't be tricked - the middle column isn't needed here. Just use the numbers in the final column. To solve each problem, you divide the number of days by 7 because there are 7 days in a week. You can write down the multiples of 7 to help you.



DO:

1. Give your answer in weeks and days:

a. 16 days =

b. 31 days =

c. 158 days =

d. 500 days =

2. Give your answer in days:

a. 4 weeks and 1 day =

b. 10 weeks and 5 days =

c. 23 weeks and 6 days =

d. 123 weeks and 4 days =

TOP TIPS

1 week = 7 days

E.g. 3 weeks = $3 \times 7 = 21$ days

Divide by 7 when turning days into weeks.

E.g. **22 days**

 $22 \div 7 = 3 \text{ r } 1 \text{ so}$

3 weeks and 1 day

3. Complete the table:

Days	In weeks and days	Rounded to the nearest week
52 days		
	9 weeks 5 days	
100 days		
76 days		
	13 weeks 4 days	

TOP TIPS

When rounding to the nearest week, if you have 1, 2 or 3 days, round down.

If you have 4, 5 or 6 days, then round up.

E.g. 4 weeks 3 days would round down to 4 weeks but 4 weeks 4 days would round up to 5 weeks.



DAY 2 RESOURCES:

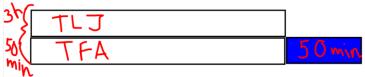
THINK:





Julie and Harry want to watch two Star Wars movies; The Force Awakens and The Last Jedi. The Last Jedi is 50 min shorter than The Force Awakens. Together, both movies run for 3h 50 mins. How long is each film?

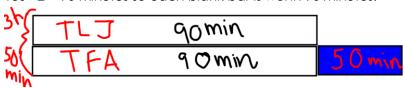
SEE: Watch the lesson video <u>here</u>. First, I set up the bar model like this:



Now I work out the values of the blank bars.

3h 50 min - 50 min = 3 hours

1 hour = 60 minutes so 3 hours = 3×60 minutes = 180 minutes $180 \div 2 = 90$ minutes so each blank bar is worth 90 minutes.



Now I can work out the length of each film.

The Last Jedi is **90 min** long or I can split 90 into **60min + 30 min** making **1hour and 30 minutes**.

The Force Awakes is 90 + 50 = 140 minutes which I can split into 120min + 20min which is the same as 2 hours and 20 minutes.

<u>DO:</u>

- 1. Give your answer in hours and minutes:
- a. 67 minutes =
- b. 90 minutes =
- c. 183 minutes =
- d. 345 minutes =
- 2. Give your answer in minutes:
- a. 1 hour 59 minutes =
- b. 6 hours 4 minutes =
- c. 11 hours 47 minutes =
- d. 24 hours =

- **TOP TIPS**
- 1 hour = 60 minutes
- 2 hours = 120 minutes
- 3 hours = 180 minutes
- 4 hours = 240 minutes
- 5 hours = 300 minutes

Can you work out more?

3. Ben watched a TV show that last for 56 minutes and a film that lasted for 99 minutes. How long did Ben watch TV for? Give your answer in hours and minutes.

Remember

Your **remainder** will be **minutes** not hours

E.g. 62 minutes

 $62 \div 60 = 1 \text{ r } 2$

1 hour and 2 minutes

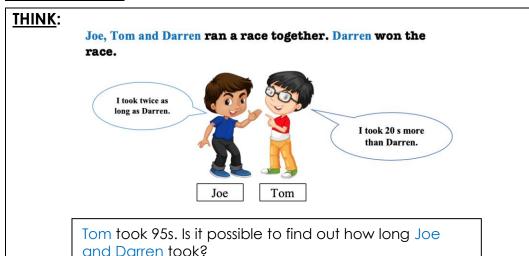
4. Nada took 48 minutes to finish her home learning. She took three times as long to finish her piano practice. In hours and minutes, how long did Nada take to finish both her home learning and piano practice?

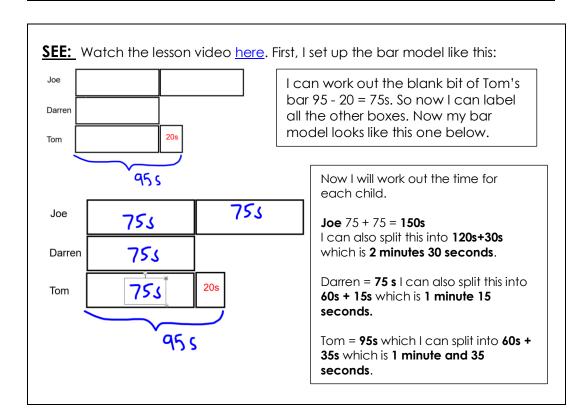
Home learning
48 minutes

Piano practice
48 minutes



DAY 3 RESOURCES:





<u>DO:</u>

- 1. Answer in minutes and seconds:
- a. 70 seconds
- b. 111 seconds
- c. 567 seconds

2. Answer in seconds:

- a. 4 minutes and 22 seconds
- b. 60 minutes and 45 seconds
- c. 100 minutes and 59 seconds

TOP TIPS

1 minute = 60 seconds

2 minutes = 120 seconds

3 minutes = 180 seconds

4 minutes = 240 seconds

5 minutes = 300 seconds

Can you work out more?

3. Complete the table:

seconds	In minutes and seconds
127	
	1 minute 55 seconds
159	

4. William takes 5 minutes 57 seconds to run round the park 3 times. For each lap he does he takes 24 seconds longer than the previous lap. How long does it take him to complete the last lap?



Remember: 5 minutes = 300 seconds

5. Rose takes 49 seconds to fold a paper bird. She takes twice as long to fold a paper basket. How long does she take to fold 50 baskets (assuming it takes the same amount of time to fold each one)? Give your answer in minutes and seconds.



DAY 4 RESOURCES:

THINK:

A train journey from Beijing to Moscow takes 210 h and 20 m.



The train leaves Moscow on the 11th and 25th of each month. Find the arrival date.

SEE: Watch the video <u>here.</u> First of all, I will work out some facts

to help me.

1 day = 24 hours

10 days = 240 hours

5 days = 120 hours

1 day = 24 hours

2 days = 48 hours

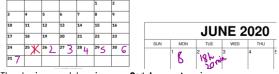
3 days = 72 hours

210k 120 90 5 5 5 7 2 18 k 20 m

I will split the 210 hours into 8 days and 18 hours like this. I must also remember about the 20 minutes too.

Now I will do the same for the next date.

May 2020



The train would arrive on **2nd June**. Again, as an additional challenge can you think of a way in which it could actually arrive on the 3rd June?

Now I will use a calendar to count on 8 whole days plus the extra 18 hours and 20 minutes.

May 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Priday	Saturday
Sunday	Prontedly	Tuesday	weenessay	Inursony	-	
					1	2
3	4	5	6	7	8	9
10	11 X	¹² 2	¹³ 3	14 4	15 5	16 6
17 7	18 8	19 18/4	20 ~	21 .	22	23
24	25	26 20	27	28	29	30
31						
				l	l	l

Using this method, this train would arrive on the 19th May. As an extra challenge, can you think of another way to solve in where the train would actually arrive on the 20th May?

DO:

1. Answer in days and hours:

a. 50 hours

b. 123 hours

c. 400 hours

2. Answer in hours:

a. 1 day 23 hours

b. 7 days 17 hours

c. 31 days 13 hours

TOP TIPS

1 day = 24 hours

2 days = 48 hours

3 days = 72 hours

4 days = 96 hours

5 days = 120 hours

6 days = 144 hours.

To turn days into hours, I multiply

by 24.

To turn **hours into days**, I **divide**

by 24.

- 3. Luca took 35 hours to plan and design a dolls house, 123 hours to construct and 4 hours to paint it. How long did it take Luca to build the doll's house? Give your answer in days and hours.
- 4. A ship sailed across the Atlantic Ocean in 180 hours. If the ship set off on 30th March, on which date did it complete its journey?

TIPS: Turn the hours into days There are 31 days in March.

5. The journey from Country A to Country B takes 2 days and 8 hours. The time taken for the journey from Country B to Country C by train is 12 hours less than the time taken to travel from Country A to Country B. What is the total time it takes to travel from Country A to Country B and then to Country C. Give your answer in days and hours.

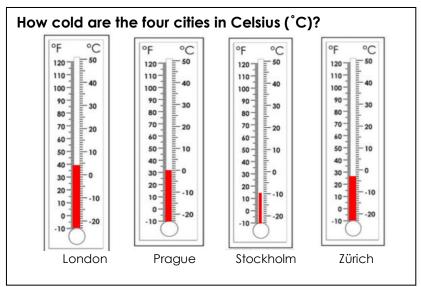
Remember: Country A to Country B = 2 days and 8 hours

Country B to Country C = 12 hours less than Country A to Country B



DAY 5 RESOURCES:

THINK:



SEE: Watch the video.

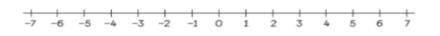
Ignore the °F numbers on the left. You are just reading the °C. Each small interval represents one degree.

The longer unmarked line is the mid point between 0 and 10 so represents a jump of 5 °C. For instance the longer unmarked line half way



between 10 °C and 20 °C represents 15 °C.

When you work down from 0, the readings become minus readings, -1 $^{\circ}$ C, -2 $^{\circ}$ C, -3 $^{\circ}$ C etc.

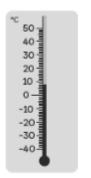


The readings are as follows:

London 4 °C Prague 0°C Stockholm -10 °C Zürich -3°C

DO:

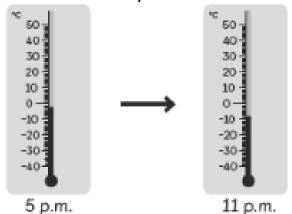
1. Complete the number sequence:



2. Write the number:

- a. 4 less than 0
- b. 13 less than 0
- c. 20 less than 0
- d. 9 less than 0

3. What is the difference in temperature?



ANSWERS:



Day 1

Question 1

- a. 2 weeks 2 days
- b. 4 weeks 3 days
- c. 22 weeks 4 days
- d. 71 weeks 3 days

Question 2

- a. 29 days
- b. 75 days
- c. 167 days
- d. 865 days

Question 3

days	In weeks and days	Rounded to the nearest week
52	7 weeks 3	7 weeks
days	days	
68	9 weeks 5	10 weeks
days	days	
100	14 weeks 2	14 weeks
days	days	
76	10 weeks 6	11 weeks
days	days	
95	13 weeks 4	14 weeks
	days	

Day 2

Question 1

- a. 1 hour 7 mins
- b. 1 hour 30 mins
- c. 3 hours 3 mins
- d. 5 hours 45 mins

Question 2

- a. 119 mins
- b. 364 mins
- c. 707 mins
- d. 1440 mins

Question 3

2 hours 35 mins

Question 4

3 hours 12 mins

Day 3

Question 1

- a. 1 minute 10 seconds
- b. 1 minute 51 seconds
- c. 9 minutes 27 seconds

Question 2

- a. 262 seconds
- b. 3645 seconds
- c. 6059 seconds

Question 3

seconds	In minutes
	and
	seconds
127	2 minutes 7
	seconds
115	1 minute 55
	seconds
159	2 minutes 39
	seconds

Question 4

2 mins 23 seconds for his last lap

Question 5

81 mins 40 secs

Day 4

Question 1

- a. 2 days 2 hours
- b. 5 days 3 hours
- c. 16 days 16 hours

Question 2

- a. 47 hours
- b. 185 hours
- c. 757 hours

Question 3

6 days and 18 hours

Question 4

6th or 7th April

Question 5

4 days and 4 hours.

Day 5

Question 1

- a. -4 and 5
- b. -10, -6, -3 and -1

Question 2

- a. -4
- b. -13
- c. -20
- d. -9

Question 3

The difference is about 7 degrees.