		Year 5 maths – Su	mmer 1 Week beginning:	18.5.20		
Theme	Measurements Converting Units of Time	Measurements Converting Units of Time	Measurements Converting Units of Time	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.	
Problem/ activity of the day Remember, just like in class, you can still show the depth of your knowledge	 (Lesson 1 resources below) <u>MAKING LINKS:</u> Last week we converted between units for measuring mass. <u>THINK: (support below)</u> Can you help me with this problem? Image: Comparison of the sum of the sum of the sum of the sum? How many weeks does each planet take to complete 1 orbit of the sun? <u>SEE: (model below)</u> We can solve this problem by dividing the number of days by 7 because there are 7 days in a week. <u>DO:</u> Use what you have learnt today to solve the other problems below. 	(Lesson 2 resources below) MAKING LINKS: Yesterday we converted between weeks and days.IHINK: (support below) Can you help me with this problem?Image: State of the sta	(Lesson 3 resources below) <u>MAKING LINKS:</u> Yesterday we converted between hours and minutes. <u>IHINK: (support below)</u> Can you help me with this problem? Joe, Tom and Darren rana racer together. Darren won the race. <u>Joe</u> <u>Tom</u> <u>Ink 30 arren</u> <u>Darren took 95 secs. Is it</u> possible to find out how long Joe and Tom took? <u>SEE: (model below)</u> We can solve this problem using a bar model. Watch the lesson video here.	(Lesson 4 resources below) <u>MAKING LINKS</u> : Yesterday we converted between minutes and seconds. <u>IHINK: (support below)</u> Can you help me with this problem? A train journey from Beijing to Moscow takes 2h and 20mins. Metric from the second Moscow takes 2h and 20mins. The train leaves Moscow on the 11 th and 25 th of each month. Find the arrival date. <u>SEE: (model below)</u> We can solve this problem by working out the number of whole days in 210 hours and 20 minutes. A calendar will also be useful today. Watch the lesson video here.	(Lesson 5 resources below) <u>MAKING LINKS:</u> Yesterday we converted between hours and days. <u>THINK: (support below)</u> Can you help me with this problem? <u>Think: (support below)</u> Can you help me with this problem? <u>Think: (support below)</u> <u>Can you help me with this</u> problem? <u>Think: (support below)</u> <u>Can you help me with this</u> <u>problem?</u> <u>Think: (support below)</u> <u>Can you help me with this</u> <u>problem?</u> <u>Think: (support below)</u> <u>Think: (support below)</u> <u>Can you help me with this</u> <u>problem?</u> <u>Think: (support below)</u> <u>Think: (support below)</u> <u>To solve these problems, you need to know that each small interval is worth 1°c. Watch the lesson video here</u> . <u>DO:</u> Use what you have learnt	
	DO: Use what you have learnt today to solve the other problems below.	DO: Use what you have learnt today to solve the other problems below.	DO: Use what you have learnt today to solve the other problems below.	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)	

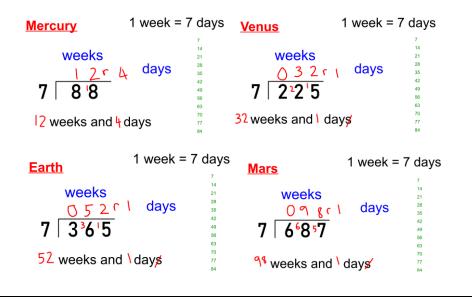


DAY 1 RESOURCES:

<u>THINK</u> :				
	The time taken to complete 1 orbit is how long a planet takes to travel once around the sun.			
	Planet Distance from the Time taken			
		Sun	complete 1 orbit	
Mercury Satur	Mercury	58 million km	88 days	
Jupiter (Venus San)	Venus	108 million km	225 days	
Asteroid belt	Earth	150 million km	365 days	
Uranus	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.



<u>DO:</u>

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 =

3. Complete the table:

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

Deepening:

Sarah planted some seeds. The seeds took 12 days to germinate. After another 53 days, Stephanie harvested her first crop. To the nearest week, how long after planting the seeds were the plants ready to harvest?



Top tips: Turn weeks into days by multiplying by 7. Eg. 3 weeks = 3x7 = 21 days

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. Eg **4 weeks 3 days** would round down to **4 weeks** but **4 weeks 4 days** would round up to **5 weeks**.

DAY 2 RESOURCES:





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 box is worth 90 minutes.

35(TLJ	gomin	
50(Min	TFA	9 () miv	50 min

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 = <u>Top tips</u>

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.

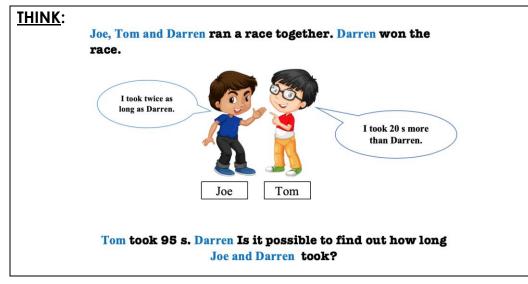
4. Nada took 48 minutes to finish her home learning. She took three times as long to finish her piano practice. In hours and minutes, how long did Nada take to finish both her home learning and piano practice?

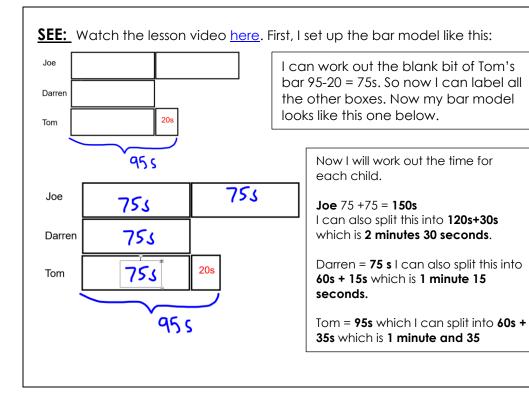
Deepening:

It takes 2 hours and 16 minutes to travel from City A to City Band then to City C. The journey from City A to City B take 46 minutes more than the journey from City B to City C. How long does it take to travel from City A to City B?



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

3. Complete the table:

seconds	In minutes and seconds			
127				
	1 minute 55 seconds			
159				

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?

5. 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?

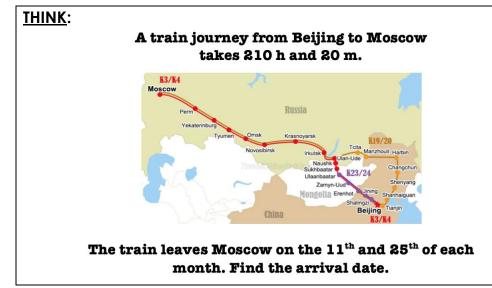
6. Rose takes 49 seconds to fold a paper bird. She takes twice as long to fold a paper basket. How long does she take to fold 50 baskets (assuming it takes the same amount of time to fold each one)? Give your answer in minutes and seconds.

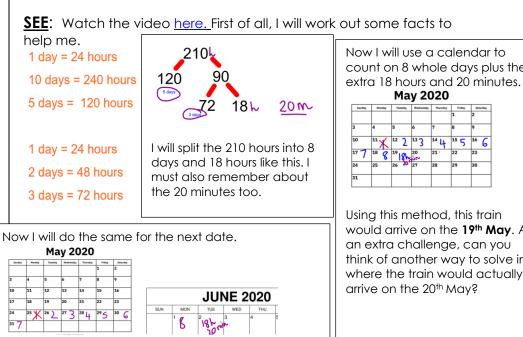
Deepening:

Eve completed 3 levels of a game in 2 minutes and 23 seconds. It took her 3 times as long to complete level 2 as level 1. It took her half as long to complete level 3 as it did to complete level 2. How much time did Eve take for each level?



DAY 4 RESOURCES:





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?

count on 8 whole days plus the

would arrive on the **19th May**. As think of another way to solve in where the train would actually

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 1 day = 24 hours2 days = 48 hours3 days = 72 hours4 days = 96 hours5 days = 120 hours6 days = 144 hours.To turn days into hours I multiply 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.

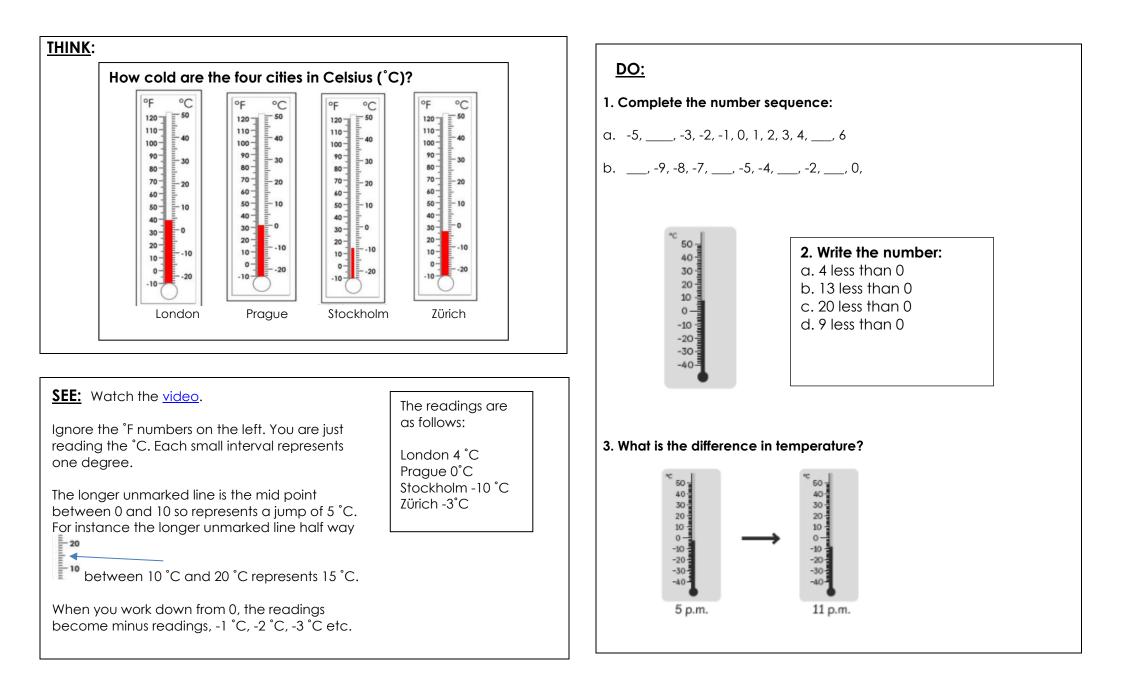
Top tips

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?

5. The journey from Country A to Country B takes 2 days and 8 hours. The time taken for the journey from County B to County C by train is 12 hours less than the time taken to travel from County 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.

Deepenina:

It takes 200 hours to walk to Liverpool. If I walked for 24 hours a day non-stop, when would I arrive if I left on Tuesday?





Deepening:

The temperature at 6 a.m. was recorded each day for one week.

Day	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
Temp (°C)	1	-1	0	3	2	-2	-3

What is the difference in temperature between the coldest day and the warmest day?

At what time of year do you think these temperatures were recorded?

Do you think it might have snowed during the week?

Explain your reasoning.

ANSWERS:

<u>Day 1</u>		Day 2 Day 3		<u>Day 4</u>	<u>Day 5</u>		
Question 1		Question 1	Question 1		Question 1	Question 1	
a. 2 wee	eks 2 days		a. 1 hour 7 mins	a. 1 minute 10 seconds		a. 2 days 2 hours	a4 and 5
b. 4 wee	eks 3 days		b. 1 hour 30 mins	b. 1 minute 51 seconds		b. 5 days 3 hours	b10, -6, -3 and -1
c. 22 we	eeks 4 days		c. 3 hours 3 mins	c. 9 minutes 27 seconds		c. 16 days 16 hours	
d. 71 we	eeks 3 days		d. 5 hours 45 mins				Question 2
				Question 2		Question 2	a4
Questio	n 2		Question 2	a. 262 seconds		a. 47 hours	b13
a. 29 dc	ays		a. 119 mins	b. 3645 secc	onds	b. 185 hours	c20
b. 75 dc	ays		b. 364 mins	c. 6059 secc	onds	c. 757 hours	d9
c. 167 d	lays		c. 707 mins				
d. 865 d	lays		d. 1440 mins	Question 3		Question 3	Deepening:
				seconds	In minutes	6 days and 18 hours	the difference is 6 degrees.
Questio		1	Question 3		and		These temperatures were
days	In weeks and	Rounded to	2 hours 35 mins		seconds	Question 4	likely to recorded in Winter
	days	the nearest		127	2 minutes 7	6 th or 7 th April	(possibly November,
52	7 weeks 3	week	Question 4		seconds		December or January)
		7 weeks	3 hours 12 mins	115	1 minute 55	Question 5	It could have snowed during
days 68	days 9 weeks 5	10 weeks	-		seconds	4 days and 4 hours.	the week because for it to
		TU weeks		159	2 minutes 39		snow the temperature would
days 100	days 14 weeks 2	14 weeks	Deepening:		seconds	Deepening:	go below freezing.
days	days	14 WEEKS	91 minutes			The following Wednesday	
76	10 weeks 6	11 weeks		Question 4			
days	days	II WEEKS			conds for his last		
95	13 weeks 4	13 weeks		lap			
75	days	13 WEEKS					
	0.0.70		4	Question 5			
Deepen	nina:			81 mins 40 se	ecs		
	nearest week = 9	9 weeks.		Deenstaar			
				Deepening: Level 1= 26 s			
				Level 2=78 set Level 3= 39 s			
				Level 3= 39 S	econas		