Year 4 Maths Remote learning Week beginning Monday 18th January 2021

This pack contains:

- Completed activity for teaching
- 5 lessons with tasks

You will then need to bring in your homework book when you return to school. The teacher will then be able to give you feedback on the work.

Lesson 1 - Teaching
Can I find times after and before?

Starter: **Starter: How many seconds, minutes, hours?**

Remember, there are 60 seconds in a minute and 60 minutes in an hour.

How many seconds are there in 2 minutes?
How many seconds are there in 4 minutes?
How many minutes is 180 seconds?
How many minutes is 240 seconds?
How many seconds are there in 3 and a half minutes?

How many minutes are there in 3 hours?
How many minutes are there in 5 hours?
How many hours is 120 minutes?
How many hours is 600 minutes?
How many minutes are there in 2 and a quarter hours?

Task: Today we are going to work out the time before or after a given time.
Example: Look at this clock. What would be the time…

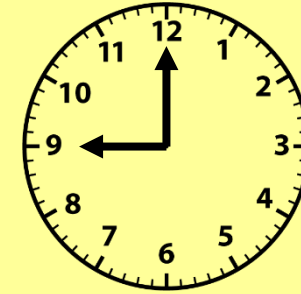1 hour after?
1 hour before?
half an our after?
quarter of an hour before?
20 minutes after?
13 minutes before?

Use your clock made last week to move the hands back or forward
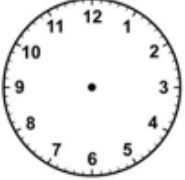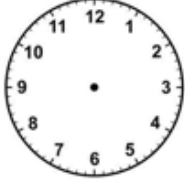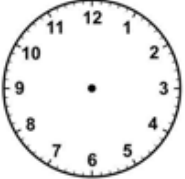and write the answers then check them.

180m, 300m, 2h, 10h, 135m
120s, 240s, 3m, 4m, 210s
Answers
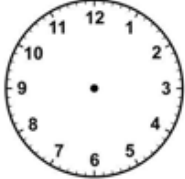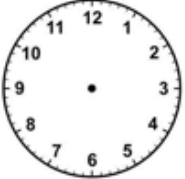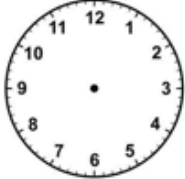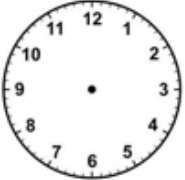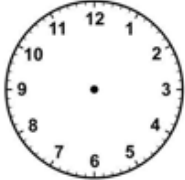
47 minutes past 8 or 8.47
20 minutes past 9 or 9.20
Quarter to 9 or 8.45
Half past 9 or 9.30
8 o'clock
10 o'clock
Answers

Lesson 1 – Activity

Can I find times after and before? Use your clock and either draw the answers on these questions or write them as digital times in your book.

Easier: Blue/Purple

Harder: Green/Yellow

6:45	**One Hour Later** ⟶	:
half past 6	**Quarter of an Hour Later** ⟶	:
8:45	**Half an Hour Later** ⟶	:
9:00	**Quarter of an Hour Later** ⟶	:

40 minutes before 5:40	40 minutes after 2:05	half an hour before 9:20	three quarters of an hour after 3:05

one hour and a half before 6:50	two and a half hours after 11:10	two hours, 40 minutes after 1:35	one hour fifty-five minutes before 3:25

When you have finished, ask an adult to check your work.

Lesson 2 - Teaching
Can I find the difference between times?

Starter: Write the months in order and the number of days in each month.

Task: Your task today is to find the difference between two times using your clock and jottings. Look at this example.

If a TV programme lasted from 10.15 a.m. to 12.40 p.m. how long was it on for?

Step 1: Make the start time on a clock.
Step 2: Write hours and minutes on a piece of paper.
Step 3: Move the hour hand round once to 11.15 and record 1 under the hours on the paper. Repeat again to 12.15.
Ask yourself - can I add on another hour? (No – that would be 1.15 p.m. which is past the end time!)
Step 4: Now move the minute hand 5 minutes to 12.20 and jot 5 under the minutes on the board. Repeat until you get to 12.40 p.m.
Step 5 Add up the hours to make 2 hours and the minutes to make 25 minutes.
Step 6 : Write the answer: The TV programme lasted for 2 hours and 25 minutes.

Hours	Minutes
1 1	5 5 5 5 5
2	25

Lesson 2 - Activity
Can I find the difference between times ?

Make the start time on your clock then move the hands to the end time.
Remember to count whole hours first then how many lots of 5 minutes and jot these down as you go.
Write the total time the programme lasted in the final column.

Name of programme	Start Time	End Time	How long did it last? __hours __ minutes
Paw Patrol	1:00 pm	1:15 pm	
Peppa Pig	2:15 pm	2.45 pm	
Power Rangers	3.00 pm	4.05 pm	
Scooby Doo	3.30 pm	4.45 pm	
Garfield (2 episodes)	11.45 pm	1.50 pm	
The Flintstones (3 episodes)	3:00 pm	5:25 pm	
Newsround Special	3.25 pm	5.00 pm	
Paddington 2 (film)	4.25 pm	6.45 pm	
How to Train Your Dragon (film)	3.45 pm	6.10 pm	
Horrible Histories Series 2	2.40 pm	5:57 pm	

Answers:
15 mins
30 mins
1 hour & 5 mins
1 hour & 15 mins
2 hours & 5 mins
2 hours & 25 mins
1 hour & 35 mins
2 hours & 20 mins
2 hours & 25 mins
3 hours & 17 mins

Lesson 3 - Teaching
Can I recall times table facts?

Starter:
Copy and complete this tables grid.

X	2	4	6	8
1				
3				
5				
10				

Answers

X	2	4	6	8
1	2	4	6	8
3	6	12	18	24
5	10	20	30	40
10	20	40	60	80

Task: Today, you are going to complete another times table grid with missing numbers.
Remember to look for facts you know first!

Lesson 3 - Activity
Can I recall times table facts?

Multiplication Grid 5 – Fill in the missing numbers (Wednesday)

X	2	6			
2					
	12				
			25		
				9	
7				21	
					64

Lesson 4 - Teaching
Can I solve elapsed time problems?
Starter:

How many days in these weeks? 2 weeks, 5 weeks, 4 weeks, 10 weeks
How many weeks in these days? 21 days, 7 days, 42 days, 77 days

Task: You will be solving time problems. They are very similar to the problems
solved on Tuesday but we will be recording our working out on a number line instead of using jottings. Here is an example:
Jennifer starts her Art homework at 10.15 a.m. and finished it at 1.30 p.m.
How long did it take her to do her homework?

You could solve it like this:
Draw a number line.
Now make the start time on your clock as you did before.
Move the time on in hours and then minutes to the end time and record these
on the number line. It would look like this:

+ 1 hour	+ 1 hour	+ 1 hour	+ 5 mins	+ 5 mins	+ 5 mins
10.15	11.15	12.15	1.15	1.20	1.25	1.30
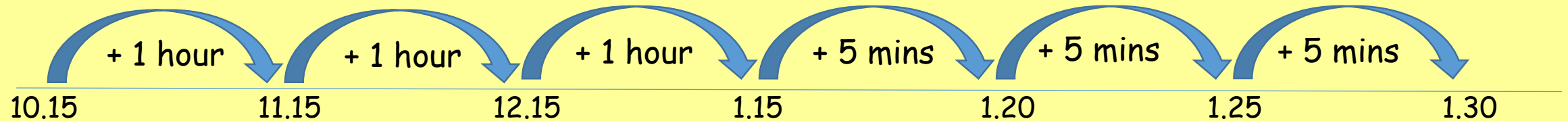
Now count up the hours and minutes to get the answer:
Jennifer took 3 hours and 15 minutes to do her Art homework.

Lesson 4 - Activity
Can I solve elapsed time problems?

Try to complete 2 colour sets. Do your working out and write the answers in your book.
If it takes more than 20 minutes to complete one set, you could do the other set tomorrow instead of the Friday task!

Can I solve elapsed time problems? Blue	Can I solve elapsed time problems? Purple
1) Emily's party starts at 3 o'clock in the afternoon and finishes at 6 o'clock in the afternoon. How long did her party last?	1) Jennifer starts her Art homework at 11.15 a.m. and finishes at 3.30 p.m. How long did it take her to do her homework?
2) Eric eats his breakfast at 8.30 in the morning and has his lunch at 12.00 midday. How long was it between his meals?	2) Jim starts his RE homework at 10.45 a.m. and finishes at 1.15 p.m. How long did it take him to do his homework?
Can I solve elapsed time problems? Green	Can I solve elapsed time problems? Yellow
1) Annie starts her History homework at 10.40 a.m. and finishes at 12.25 p.m. How long did it take her to do her homework?	1) Katherine starts her sponsored silence for charity at 8.33 a.m. and finishes at 4.47 p.m. How long did she stay silent?
2) Arthur starts his Spelling homework at 11.25 a.m. and finishes at 2.55 p.m. How long did it take him to do his homework?	2) Kevin starts building his Millennium Falcon Lego set at 8.54 a.m. and finishes at 9.19 p.m. How long did it take him to build?

Answers
Blue 1) 3 hours
Blue 2) 3 hours 30 minutes
Purple 1) 4 hours 15 minutes
Purple 2) 2 hours 30 minutes
Green 1) 1 hour 45 minutes
Green 2) 3 hours 30 minutes
Yellow 1) 8 hours 14 minutes
Yellow 2) 12 hours 25 minutes

Lesson 5 - Teaching
Can I solve time problems?
Starter:

How many months in these years?
2 years, 4 years, 8 years, 9 years
How many years in these months?
12 months, 36 months, 60 months, 144 months

Answers
24 months, 48 months, 96 months, 108 months
1 year, 3 years, 5 years, 12 years

Task: You will be finishing the Rainbow questions from yesterday or if you have already completed two sets of questions you could have a go at the nrich challenge on the next page.

Lesson 5 - Activity
Can I solve time probelms?

5 on the Clock

On a digital clock showing 24-hour time, over a whole day, how many times does a 5 appear?

Is it the same number for a 12-hour clock over a whole day?

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