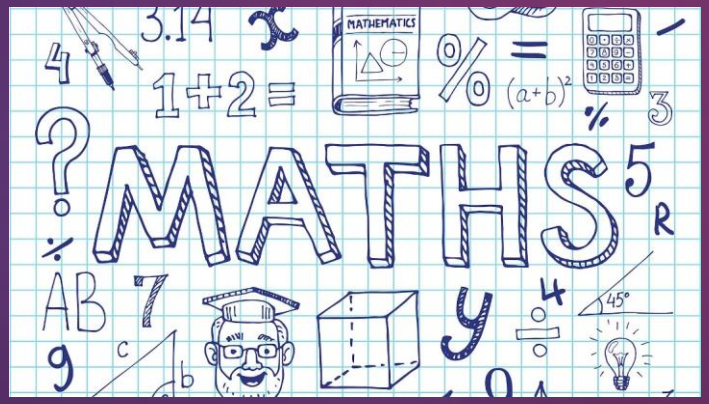
Week beginning 22nd February

P6/5 Maths Planner



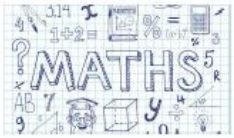
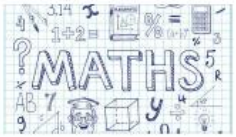
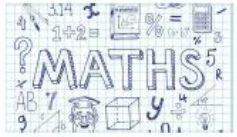
P6/5 Maths
What to expect!

- At the beginning of each week we will upload 3 PowerPoints into the January Home Learning folder on teams. Literacy, Numeracy and General.
- Teachers will be on hand to support throughout the school day.
- Teachers will host daily live meets at 9.10am and 1pm where they will talk through your task. These will be for help, support, check ins and fun will take place! Feel free to join whenever you can.
- You can work through the activities at your own pace, choosing activities you would like to complete ☺

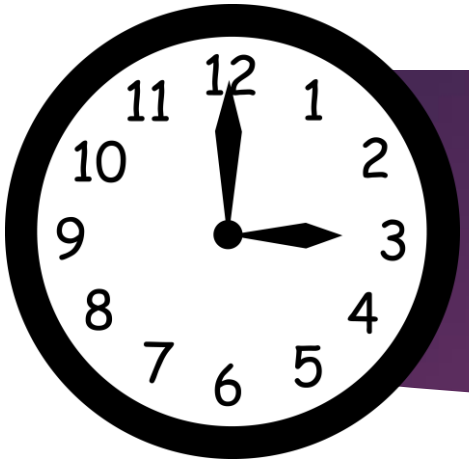
#P6/5areoutofthisworld

Suggested Updated Timetable

P6/5 Home Learning Suggested Timetable

	9:00-10:30am	Break 10:30-11am	11am-12:30	Lunch 12.30 -1:00	1.00-2.00	2.00-3.00
Monday					Human Body	
Tuesday					Mary Queen of Scots	
Wednesday					Human Body	PE
Thursday					RME/French	
Friday			ICT		Mary Queen of Scots	PE

Your daily lives are at 9:10am and 1:05pm everyday!



22.02.21

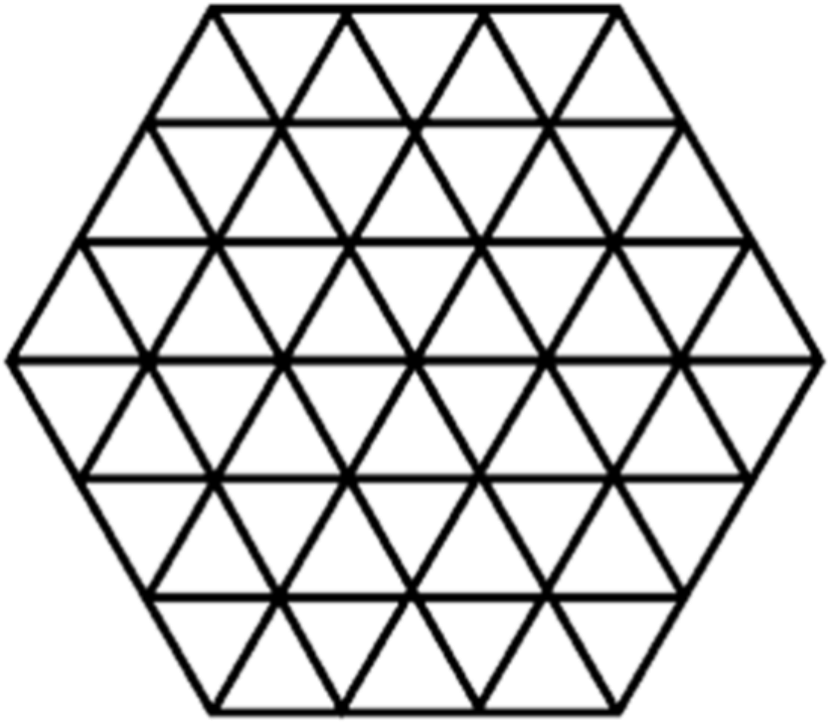
LI: to convert analogue to digital time using 5 minute intervals

LI: to calculate the length of time it takes between two intervals

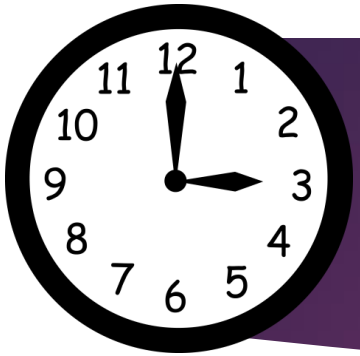
Morning Challenge

22.02.21

How many triangles in this picture?



How many hexagons in this picture?



Time

22.02.21

Pyramids

Starter
Morning challenge

Main Task
Teejay 2a pg. 33 More Difficult Timetables

Pg. 35 Q1 – Q3

Finisher
Online Game Options
(on the slide after pyramid's work)

Cubes

Starter
Morning challenge

Main Task
Digital worksheet

Challenge: calculate 15 minutes later

Finisher
Online Game Options
(on the slide after pyramid's work)

Cuboids

Starter
Morning challenge

Main Task
Three Little Pigs Interval worksheet

Extension: Convert 12 – 24 hour time

Finisher
Online Game Options
(on the slide after pyramid's work)

Spheres

Starter
Morning challenge

Main Task
Teejay 1b: pg 43

Time Interval TV Schedule Worksheet

Finisher
Online Game Options
(on the slide after pyramid's work)

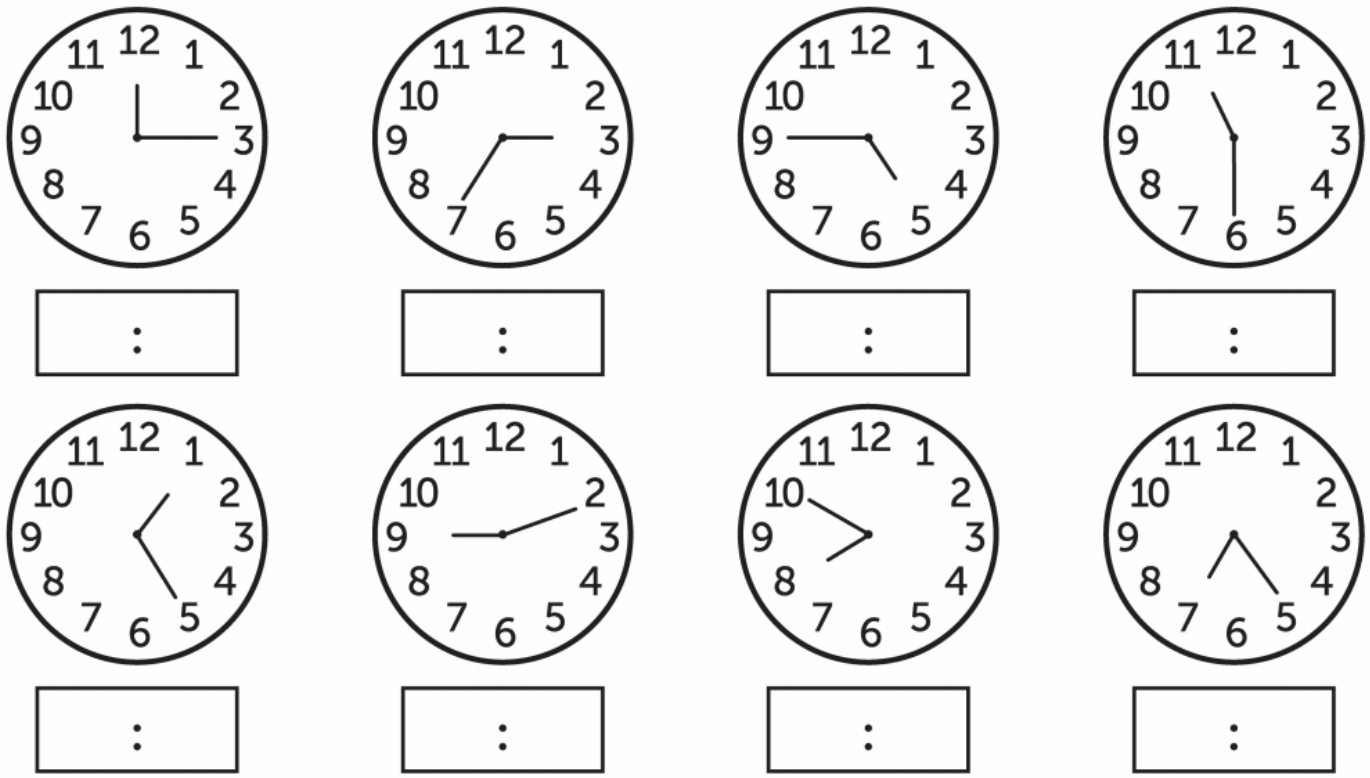
Cubes

22.02.21

What time is it?

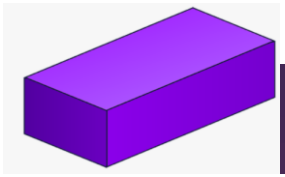
Name: _____

INSTRUCTIONS: Write the time below each clock.



CHALLENGE

15 minutes has passed for each of the times, what is the new digital and analogue time?



Cuboid

22.02.21

Name: _____ 22/02/21

LI: to calculate time intervals using the 24 hours clock

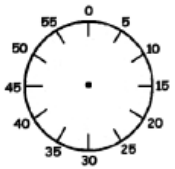
Your task today is to help the three little pigs! Using the times below calculate how much time they have in between the wolf leaving and the wolf returning. Write your calculations and answers (in hours and minutes) in your maths books.

A) Calculate the time intervals between:

1) 12:00 – 14:25
2) 16:50 – 19:15
3) 17:45 – 21:30
4) 11:20 – 15:40
5) 12:15 – 20:10
6) 09:40 – 18:25
7) 13:05 – 19:00
8) 12:12 – 16:42
9) 17:59 – 18:11
10) 01:17 – 19:10
11) 09:41 – 16:02
12) 10:26 – 14:09
13) 11:57 – 16:21
14) 12:19 – 15:18

B) Using the start time and length of time the wolf was away for find what time he returned. Record your answers in your book using the 24 hour clock.

1) Start: 15:25. Away for: 1 hour 10 minutes.
2) Start: 10:10. Away for 2 hours 55 minutes.
3) Start: 12:24. Away for 6 hours 5 minutes.
4) Start: 16:40. Away for 4 hours 25 minutes.



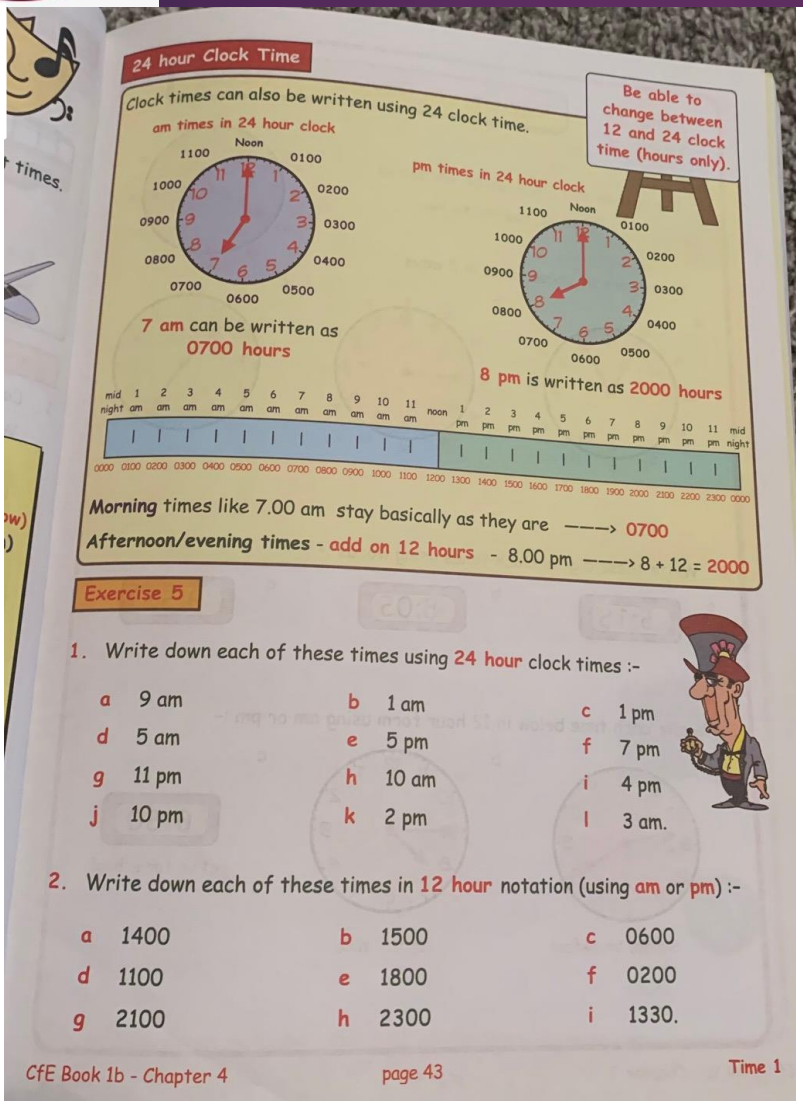
EXTENSION:

1) Convert your answers in A to minutes. E.g. 5hr 10min → 310 minutes.
2) Convert your answers in B to the 12 hour clock. E.g. 16:10 → 4:10pm

I know this is a little hard to see, the full PDF is in the folder!

Spheres

22.02.21



24 hour Clock Time

Clock times can also be written using 24 clock time.

Be able to change between 12 and 24 clock time (hours only).

am times in 24 hour clock

pm times in 24 hour clock

7 am can be written as 0700 hours

8 pm is written as 2000 hours

Morning times like 7.00 am stay basically as they are ——→ 0700

Afternoon/evening times - add on 12 hours - 8.00 pm ——→ 8 + 12 = 2000

Exercise 5

1. Write down each of these times using 24 hour clock times :-

a 9 am	b 1 am	c 1 pm
d 5 am	e 5 pm	f 7 pm
g 11 pm	h 10 am	i 4 pm
j 10 pm	k 2 pm	l 3 am.

2. Write down each of these times in 12 hour notation (using am or pm) :-

a 1400	b 1500	c 0600
d 1100	e 1800	f 0200
g 2100	h 2300	i 1330.

CfE Book 1b - Chapter 4 page 43 Time 1

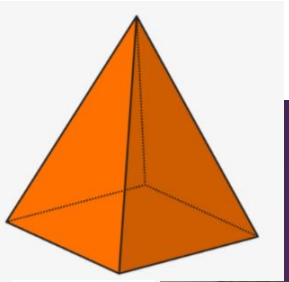
LI: to calculate time intervals using a clock

This is a TV schedule:

Programme	Start Time
X-men 3	10:30am
Superman	12:45pm
Spiderman	2.15pm
Flora and Friends	3.40pm
Blue Peter	4.05pm
Newsround	4.30pm
How to be Epic at Everything	4.40pm
The Daredevil	5.00pm
Sidekick	5.25pm
60 Second Denis	5.37pm
The Next Step	5.40pm
Operation Ouch	5.53pm

1. What time does Spiderman start?
2. How long is there from the start of X-men 2 to the start of Superman 5?
3. How long does Flora and Friends last?
4. How long does The Daredevil last?
5. Simran switches on the TV at the start of Newsround. She watches until The Dare Devil finishes. How long does she watch for?
6. How long does Sidekick last?
7. Operation Ouch lasts for 15 minutes. What time does it finish?
8. Breakfast Chat was on for 2 hours before X-Men 3 started. What time did Breakfast Chat start?
9. If Edmund watched X-Men 3 and Superman AND Spiderman, how long did he watch telly for?

Challenge: How long from the start of X-Men to the end of Operation Ouch?



Pyramids

22.02.21

More Difficult Timetables

Exercise 4

1. A Sunday train service timetable is shown.

Balloch	1115	1305	1520	1800	2205
Partick	1147	1337	1552	-----	2237
Airdrie	1217	-----	1622	-----	2309
Bathgate	1232	1422	1637	-----	2354
Edinburgh	1259	1439	1654	1900	0011

a At what time does the train leaving from Balloch at 1520 arrive in Edinburgh ?

b At what time does the 1305 Balloch train arrive in Bathgate ?

c How long does the 1232 Bathgate train take to reach Edinburgh ?

d I arrive in Airdrie at 4:50 pm. How long do I have to wait for a train to Edinburgh ?

e It takes me 22 minutes to walk from my Uncle's house in Airdrie to the station. If I want to catch the 1217 to Edinburgh, what is the latest time I can leave his house ?

f Use the timetable to make up 3 questions of your own.

2. The timetable for the Glasgow Waterbus is as shown.

Glasgow Waterbus

Yoker		Braehead		Science Centre		Broomielaw	
Arrive	Depart	Arrive	Depart	Arrive	Depart	Arrive	Depart
	10.10	10.20	10.25	10.50	10.55	11.05	11.10
12.05	12.10	12.20	12.25	12.50	12.55	13.05	13.10
14.05	14.10	14.20	14.25	14.50	14.55	15.05	15.10
16.05	16.10	16.20	----	----	----	----	----
----	----	----	17.25	17.50	17.55	18.05	----

a When the Waterbus departs at 10.10, at what time does it arrive at :-
(i) Braehead
(ii) Broomielaw ?

b The Waterbus arrives at the Science Centre at 17.50. Can you see that this bus did not depart from Yoker ?
(i) Where did it depart from ?
(ii) At what time did it leave ?

c I arrive at the Science Centre at 2.20 pm. How long do I have to wait for the bus to Broomielaw ?

d Why is there a 5 minute gap between the arrival and the departure times ?

e Using the timetable, make up questions where each of the following are the answers :-
(i) 16.05 (ii) 12.25 (iii) 25 minutes (iv) 18.05.

Minutes and Seconds

When adding or subtracting units of time you need to remember that there are 60 seconds in 1 minute.

Be able to add or subtract units of time

Adding :-

5 mins	40 secs
+ 3 mins	50 secs
9 mins	30 secs

90 secs = 1 min 30 secs

Subtracting :-

8 mins	20 secs
- 5 mins	50 secs
2 mins	30 secs

60 + 20 - 50 = 30 secs

Remember :-
1 hour = 60 minutes
1 minute = 60 seconds

Exercise 6

1. A tenor recorded a song lasting 105 seconds for an advert on TV. Write this time in minutes and seconds.

2. Change each of these to minutes and seconds :-
a 90 secs b 148 secs c 220 secs
d 600 secs e 1230 secs f 6000 secs.

3. Change each of these to hours and minutes :-
a 85 mins b 125 mins c 245 mins
d 600 mins e 1810 mins f 12000 mins.

4. Copy the following and complete :-

a 4 mins 20 secs + 3 mins 35 secs

b 4 mins 30 secs + 2 mins 50 secs

c 8 mins 45 secs + 3 mins 55 secs

d 7 mins 45 secs - 4 mins 30 secs

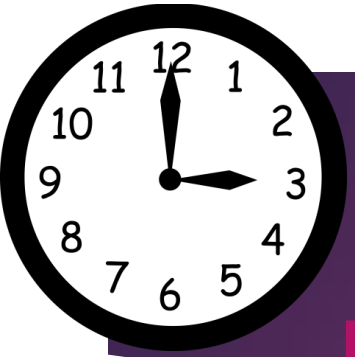
e 7 mins 05 secs - 1 min 55 secs

f 7 mins 40 secs - 6 mins 50 secs

5. Tracy sang 3 songs in her spot on the "Scotland's Got Talent" audition. "With You" - 3 mins 45 secs, "Be Mine" - 2 mins 50 secs, "Rainbow Girl" - 3 mins 25 secs. How long did her songs last altogether ?

6. Two babies were born at Dumfries Maternity Hospital. Charles was born on the 31st May 2011 at 2358. Brenda was born at 0006 on the 2nd June 2011. How much younger is Brenda than Charles ?

7. a How many seconds are in one year ?
b How many seconds have you been alive ?



Time

22.02.21

Online Game Finishers

https://www.topmarks.co.uk/Flash.aspx?f=matchingpairstimev3

https://www.sheppardsoftware.com/math/time/clock-splat-game/

https://mathsframe.co.uk/en/resources/resource/261

https://mathsframe.co.uk/en/resources/resource/118/adding_time_word_problems#

http://www.scootle.edu.au/ec/viewing/L9643/index.html

Starter – Daily 5

23.02.21

Pyramids

1. 3948 ÷ 7
2. 4/6 of 54
3. 657 x 32
4. (16 x 7) + 765
5. 3043
   - 547

Cubes

1. 15 ÷ 3
2. $\frac{1}{4}$ of 16
3. 4 x 4
4. 5 x 3
5. 21
   - 8

Cuboids

1. 72 ÷ 4
2. 2/5 of 35
3. 8 x 6
4. 5 x 9
5. 436
   - 49

Spheres

1. 182 ÷ 7
2. 2/7 of 21
3. 321 x 6
4. 319 x 9
5. 786
   - 99

Mini Maths

23.02.21

CHOOSE YOUR SPICE!!!

Mild

Medium

Hot

Mild

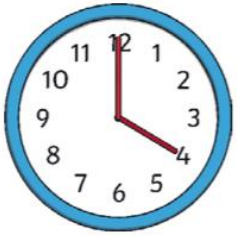
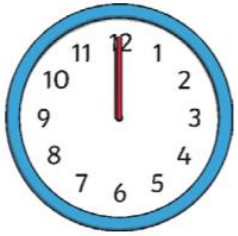
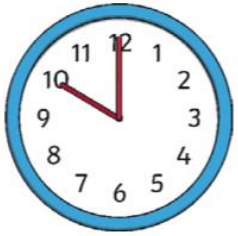
Time: Forwards and Backwards

1. Kim goes to bed at this time:

On a Friday, she can go to bed an hour later.
What time will that be?

Time

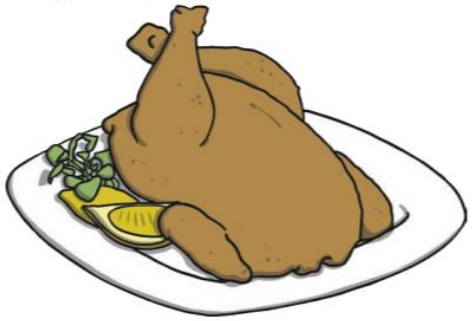
1. Put these clocks in order.
   Could they go in a different order?
   Explain your reasoning to a friend.

Medium

Time Word Problem Challenge Cards

1. Mum puts the chicken in the oven at 4:25 p.m. She let it bake covered for 10 minutes, then uncovered for 35 minutes more. What time will the chicken come out of the oven?



Time Word Problem Challenge Cards

2. Your sister practised her dance routine for 45 minutes. She stopped practising at 4:50 p.m. What time did she start practising?

Hot

Hours and Minutes

The film Zootropolis is 108 minutes long.

Explain how you would convert this to hours and minutes and then calculate the finishing time when the film starts at 14:25.

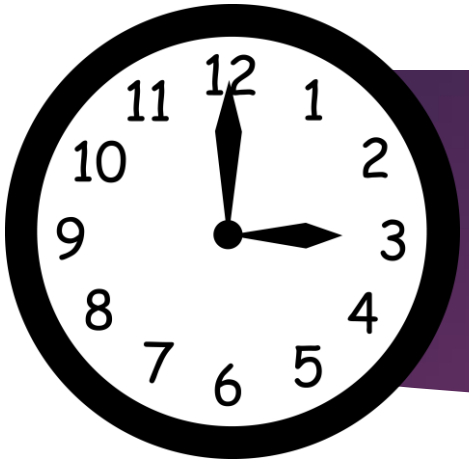
twinkl.co.uk

Minutes and Seconds

Complete this table to convert between seconds and minutes and seconds:

Seconds	Minutes and Seconds
140	
	1.45
	3:10
250	
	5:35

twinkl.co.uk



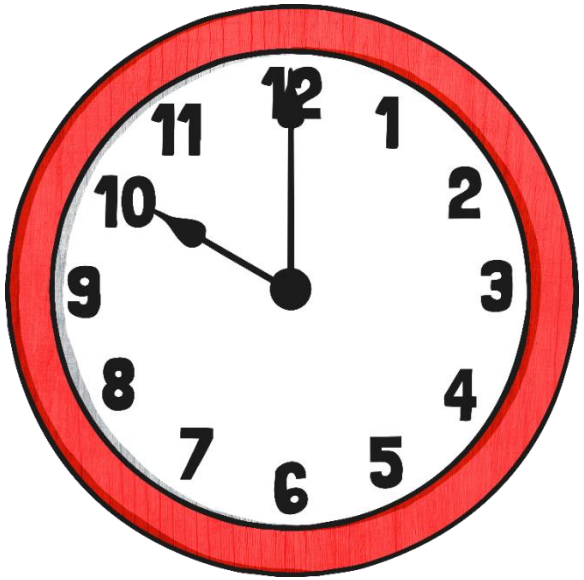
24.02.21

LI: to calculate time durations using 24 and 12 hour time

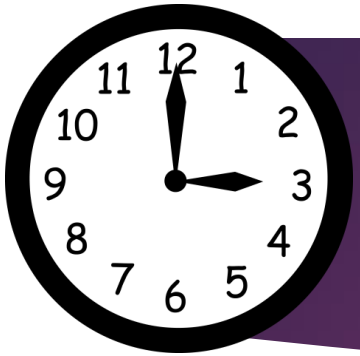
Morning Challenge 24.02.21

A clock broke into two pieces.

The numbers on each of the pieces add up to the same total.



Draw a diagram to show how the clock cracked.



Time

24.02.21

Pyramids

Starter
Morning Challenge

Main Task
LI: to calculate time durations using 24 and 12 hour time

Heinemann 7
pg. 89 & 90.

Finisher
Riddle questions

Cubes

Starter
Morning Challenge

Main Task
LI: to calculate time durations using 24 and 12 hour time

Heinemann 4
pg. 65 & 66.

Finisher
Riddle questions

Cuboids

Starter
Morning Challenge

Main Task
LI: to calculate time durations using 24 and 12 hour time

Heinemann 5
pg. 85 & 86.

Finisher
Riddle questions

Spheres

Starter
Morning Challenge

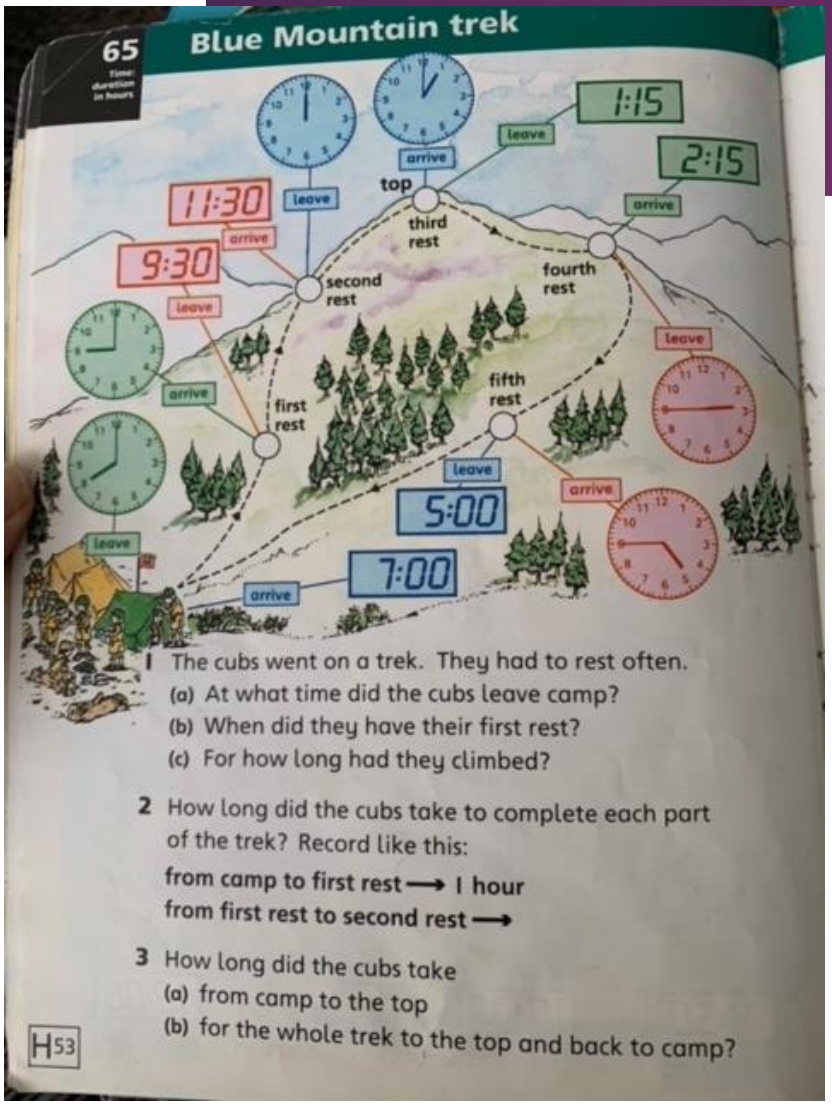
Main Task
LI: to calculate time durations using 24 and 12 hour time

Heinemann 6
pg. 89 & 90.

Finisher
Riddle questions

Cubes

24.02.21



65 Blue Mountain trek

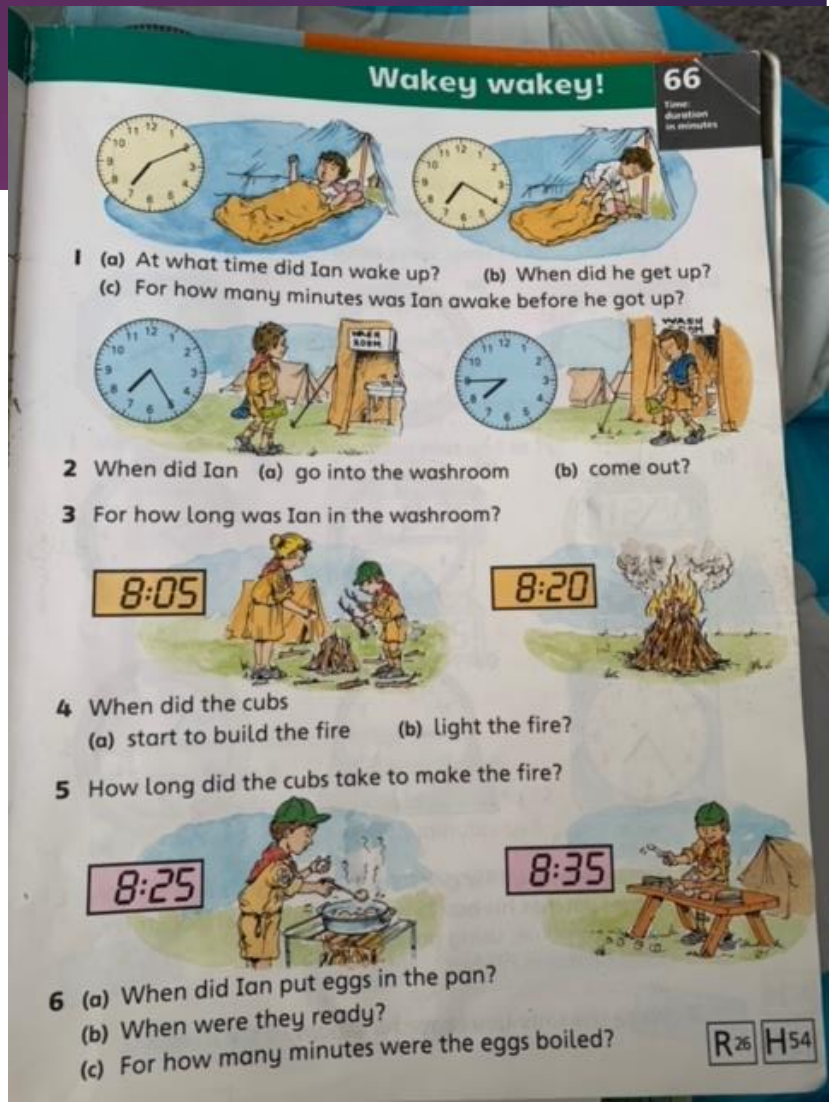
Time: duration in hours

1 The cubs went on a trek. They had to rest often.
(a) At what time did the cubs leave camp?
(b) When did they have their first rest?
(c) For how long had they climbed?

2 How long did the cubs take to complete each part of the trek? Record like this:
from camp to first rest ⟶ 1 hour
from first rest to second rest ⟶

3 How long did the cubs take
(a) from camp to the top
(b) for the whole trek to the top and back to camp?

H53



66 Wakey wakey!

Time: duration in minutes

1 (a) At what time did Ian wake up? (b) When did he get up?
(c) For how many minutes was Ian awake before he got up?

2 When did Ian (a) go into the washroom (b) come out?

3 For how long was Ian in the washroom?

4 When did the cubs
(a) start to build the fire (b) light the fire?

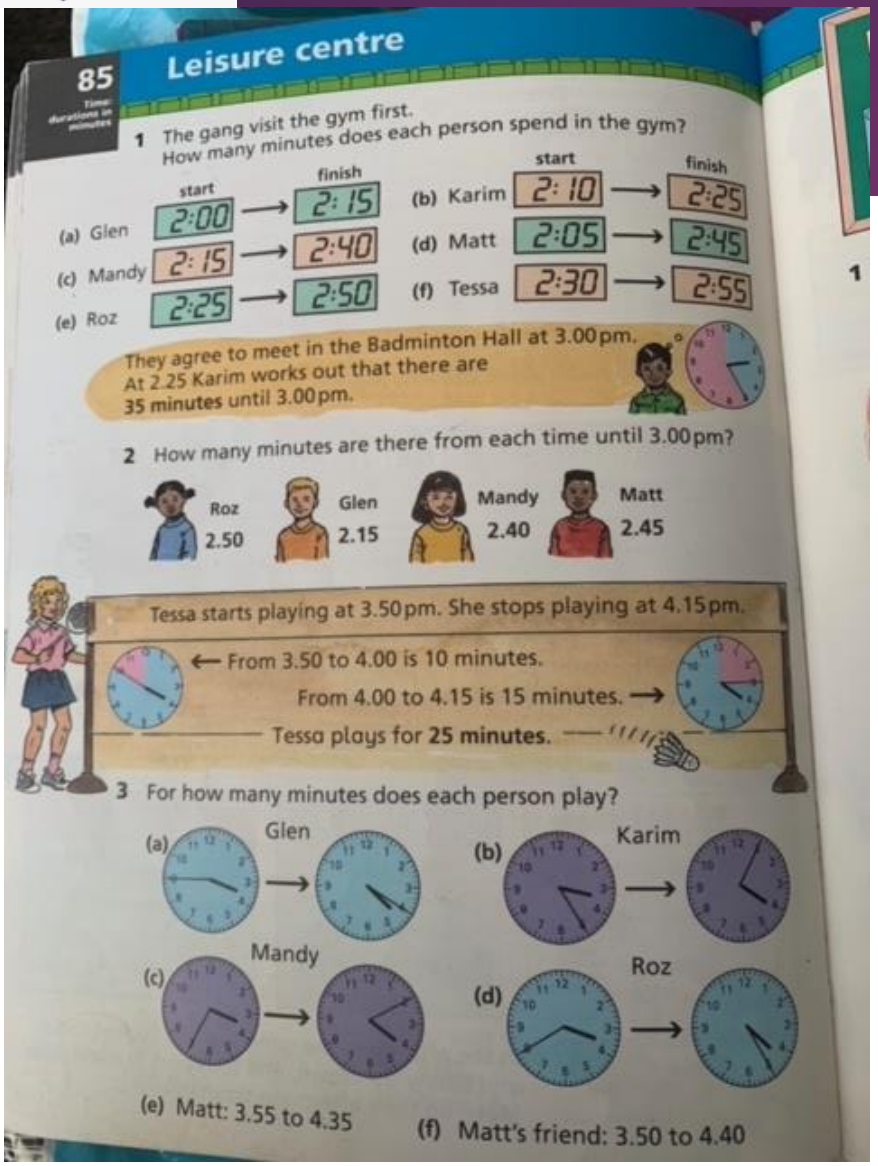
5 How long did the cubs take to make the fire?

6 (a) When did Ian put eggs in the pan?
(b) When were they ready?
(c) For how many minutes were the eggs boiled?

R26 H54

Cuboid

24.02.21



85

Leisure centre

1 The gang visit the gym first.
How many minutes does each person spend in the gym?

	start	finish		start	finish
(a) Glen	2:00	2:15	(b) Karim	2:10	2:25
(c) Mandy	2:15	2:40	(d) Matt	2:05	2:45
(e) Roz	2:25	2:50	(f) Tessa	2:30	2:55

They agree to meet in the Badminton Hall at 3.00pm.
At 2.25 Karim works out that there are **35 minutes** until 3.00pm.

2 How many minutes are there from each time until 3.00pm?

Roz 2.50 Glen 2.15 Mandy 2.40 Matt 2.45

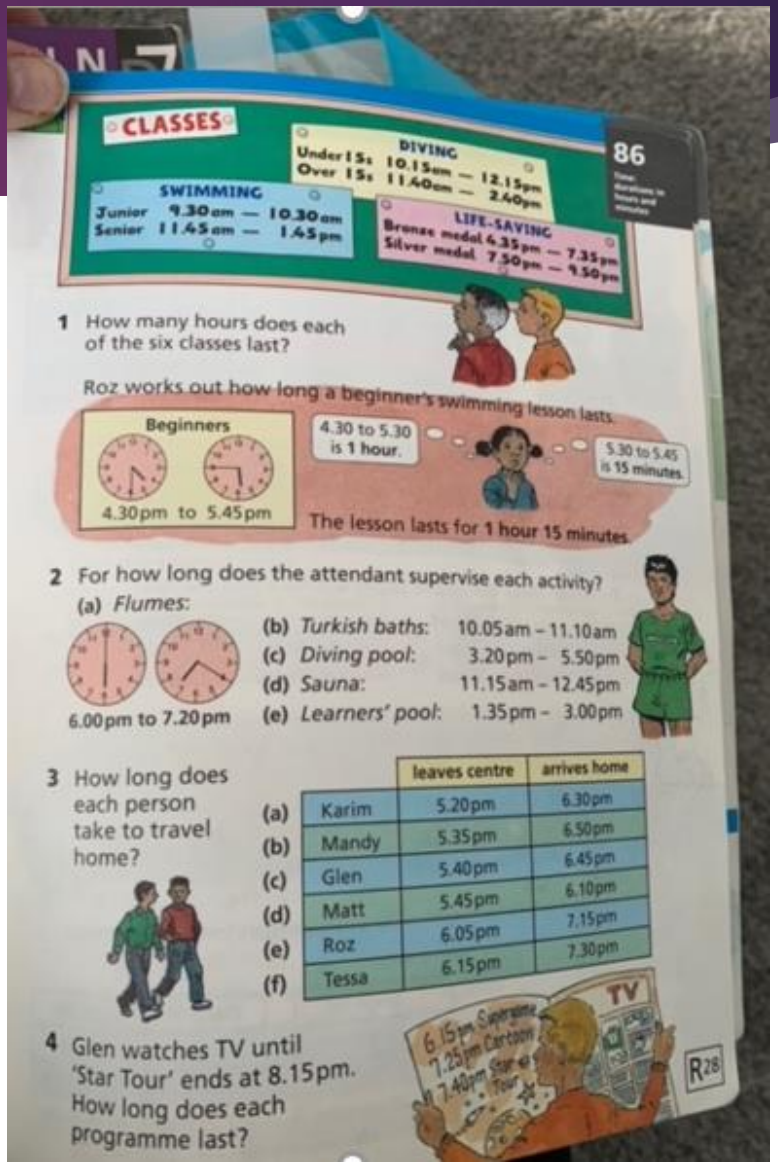
Tessa starts playing at 3.50pm. She stops playing at 4.15pm.

← From 3.50 to 4.00 is 10 minutes.
From 4.00 to 4.15 is 15 minutes. →
Tessa plays for **25 minutes**.

3 For how many minutes does each person play?

(a) Glen (b) Karim (c) Mandy (d) Roz

(e) Matt: 3.55 to 4.35 (f) Matt's friend: 3.50 to 4.40



86

CLASSES

DIVING	
Under 15s	10.15am – 12.15pm
Over 15s	11.40am – 2.40pm

SWIMMING	
Junior	9.30am – 10.30am
Senior	11.45am – 1.45pm

LIFE-SAVING
Bronze medal 4.35pm – 7.35pm
Silver medal 7.50pm – 9.50pm

1 How many hours does each of the six classes last?

Roz works out how long a beginner's swimming lesson lasts.

Beginners 4.30pm to 5.45pm

4.30 to 5.30 is 1 hour.
5.30 to 5.45 is 15 minutes.

The lesson lasts for **1 hour 15 minutes**.

2 For how many long does the attendant supervise each activity?

(a) *Flumes*: 6.00pm to 7.20pm
(b) *Turkish baths*: 10.05am – 11.10am
(c) *Diving pool*: 3.20pm – 5.50pm
(d) *Sauna*: 11.15am – 12.45pm
(e) *Learners' pool*: 1.35pm – 3.00pm

3 How long does each person take to travel home?

		leaves centre	arrives home
(a)	Karim	5.20pm	6.30pm
(b)	Mandy	5.35pm	6.50pm
(c)	Glen	5.40pm	6.45pm
(d)	Matt	5.45pm	6.10pm
(e)	Roz	6.05pm	7.15pm
(f)	Tessa	6.15pm	7.30pm

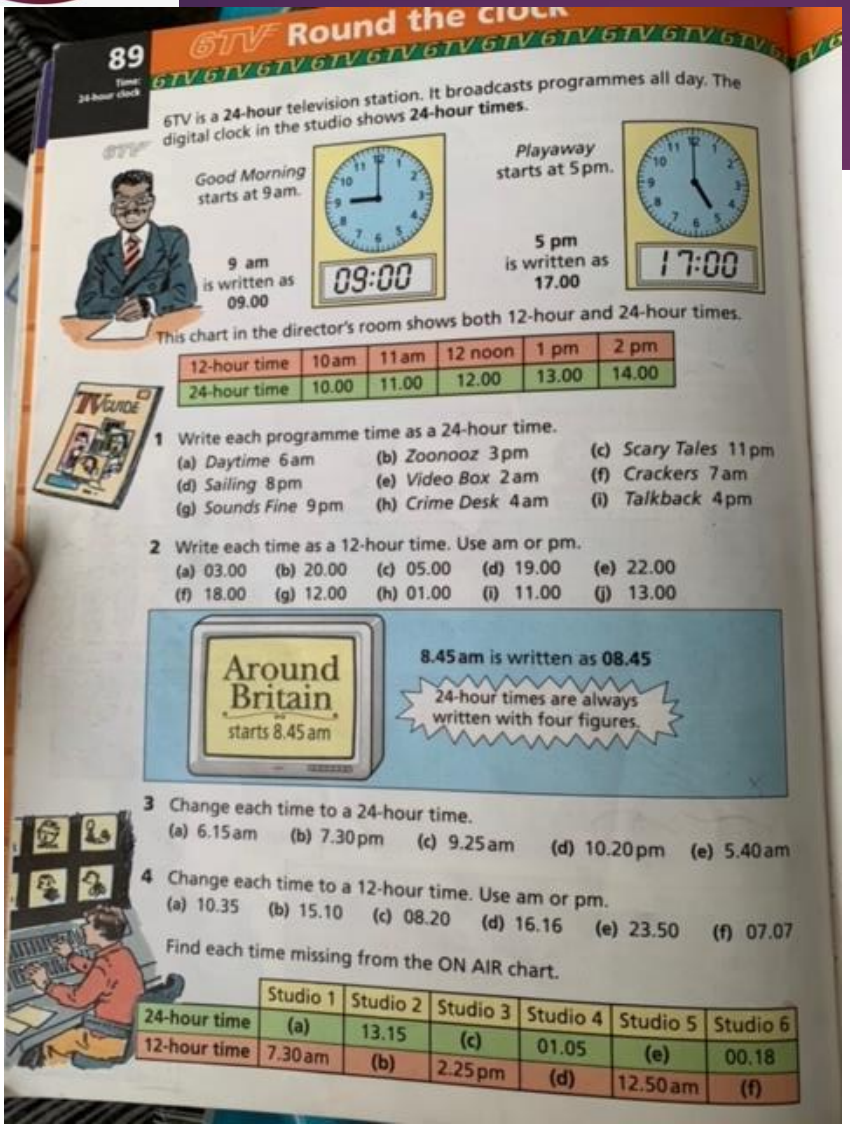
4 Glen watches TV until 'Star Tour' ends at 8.15pm. How long does each programme last?

TV 6.15pm Supergame 7.25pm Cartoon 7.40pm Star Tour

R28

Spheres

24.02.21



89

Time: 24-hour clock

6TV Round the clock

6TV is a **24-hour** television station. It broadcasts programmes all day. The digital clock in the studio shows **24-hour times**.

Good Morning starts at 9 am.

9 am is written as **09.00**

Playaway starts at 5 pm.

5 pm is written as **17.00**

This chart in the director's room shows both 12-hour and 24-hour times.

12-hour time	10 am	11 am	12 noon	1 pm	2 pm
24-hour time	10.00	11.00	12.00	13.00	14.00

1 Write each programme time as a 24-hour time.

(a) *Daytime* 6 am (b) *Zoonooz* 3 pm (c) *Scary Tales* 11 pm
(d) *Sailing* 8 pm (e) *Video Box* 2 am (f) *Crackers* 7 am
(g) *Sounds Fine* 9 pm (h) *Crime Desk* 4 am (i) *Talkback* 4 pm

2 Write each time as a 12-hour time. Use am or pm.

(a) 03.00 (b) 20.00 (c) 05.00 (d) 19.00 (e) 22.00
(f) 18.00 (g) 12.00 (h) 01.00 (i) 11.00 (j) 13.00

Around Britain starts 8.45 am

8.45 am is written as **08.45**

24-hour times are always written with four figures.

3 Change each time to a 24-hour time.

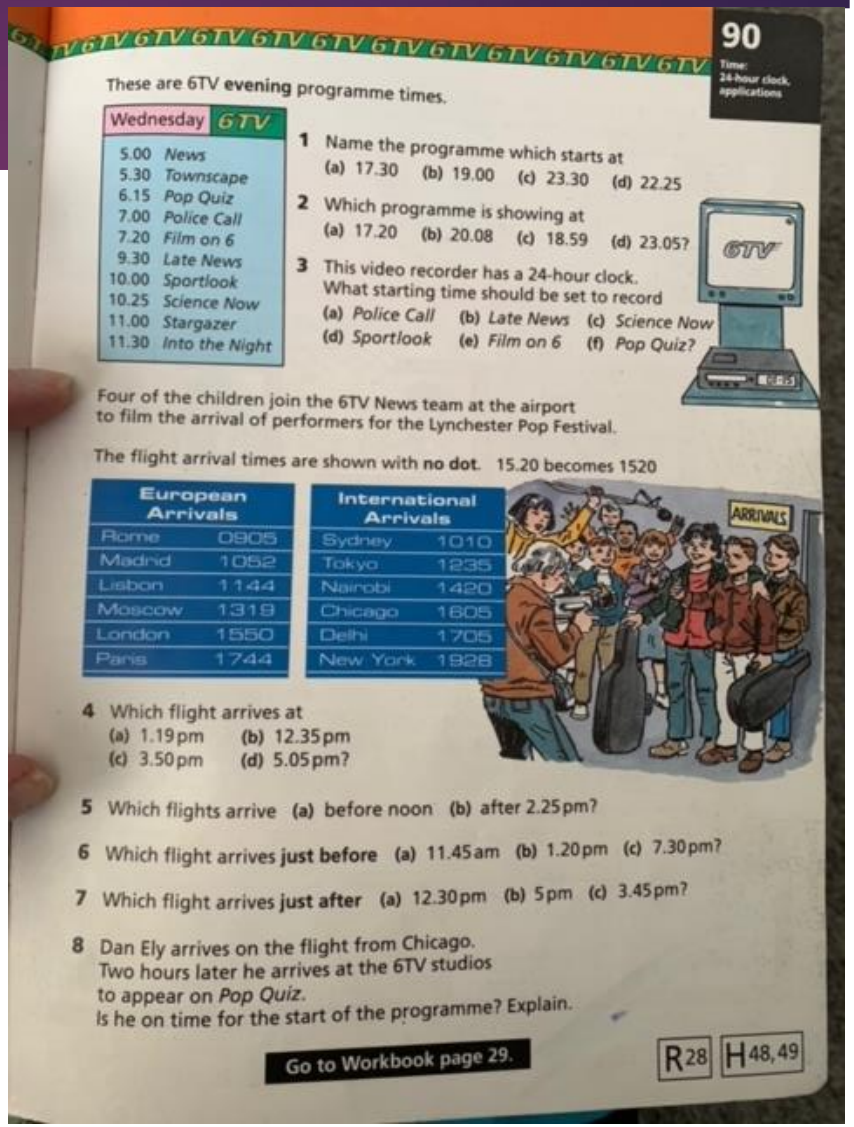
(a) 6.15 am (b) 7.30 pm (c) 9.25 am (d) 10.20 pm (e) 5.40 am

4 Change each time to a 12-hour time. Use am or pm.

(a) 10.35 (b) 15.10 (c) 08.20 (d) 16.16 (e) 23.50 (f) 07.07

Find each time missing from the ON AIR chart.

	Studio 1	Studio 2	Studio 3	Studio 4	Studio 5	Studio 6
24-hour time	(a)	13.15	(c)	01.05	(e)	00.18
12-hour time	7.30 am	(b)	2.25 pm	(d)	12.50 am	(f)



90

Time: 24-hour clock, applications

These are 6TV **evening** programme times.

Wednesday	6TV
5.00	*News*
5.30	*Townscape*
6.15	*Pop Quiz*
7.00	*Police Call*
7.20	*Film on 6*
9.30	*Late News*
10.00	*Sportlook*
10.25	*Science Now*
11.00	*Stargazer*
11.30	*Into the Night*

1 Name the programme which starts at
(a) 17.30 (b) 19.00 (c) 23.30 (d) 22.25

2 Which programme is showing at
(a) 17.20 (b) 20.08 (c) 18.59 (d) 23.05?

3 This video recorder has a 24-hour clock. What starting time should be set to record
(a) *Police Call* (b) *Late News* (c) *Science Now*
(d) *Sportlook* (e) *Film on 6* (f) *Pop Quiz?*

Four of the children join the 6TV News team at the airport to film the arrival of performers for the Lynchester Pop Festival.

The flight arrival times are shown with **no dot**. 15.20 becomes 1520

European Arrivals	
Rome	0905
Madrid	1052
Lisbon	1144
Moscow	1319
London	1550
Paris	1744

International Arrivals	
Sydney	1010
Tokyo	1235
Nairobi	1420
Chicago	1605
Delhi	1705
New York	1928

4 Which flight arrives at
(a) 1.19 pm (b) 12.35 pm
(c) 3.50 pm (d) 5.05 pm?

5 Which flights arrive (a) before noon (b) after 2.25 pm?

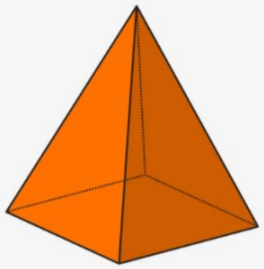
6 Which flight arrives **just before** (a) 11.45 am (b) 1.20 pm (c) 7.30 pm?

7 Which flight arrives **just after** (a) 12.30 pm (b) 5 pm (c) 3.45 pm?

8 Dan Ely arrives on the flight from Chicago. Two hours later he arrives at the 6TV studios to appear on *Pop Quiz*. Is he on time for the start of the programme? Explain.

Go to Workbook page 29.

R28 H48,49



Pyramids

24.02.21

Time: 24-hour clock, durations

1 Some children went on a Eurotravel activity holiday. This was their Tuesday timetable.

	swimming	canoeing	lunch	wind-surfing
start	08.30	10.00	12.15	13.45
finish	09.30	12.00	13.15	15.45

(a) How long was spent on each activity?
(b) How long was it from the beginning of swimming to the end of canoeing?
(c) How long was the timetabled day?

2 On Wednesday there was a relay race.
Mark began the race at 10.15. He passed the baton to Sara at 10.31.
Sara passed the baton to David at 10.49.
David crossed the finish line at 11.03.

(a) For how many minutes did each child run?
(b) Who ran for the longest time?
(c) How long did the **team** take to run the relay race?

Tennis Practice – Thursday morning

Ross		Judy		Michael		Moira	
time	activity	time	activity	time	activity	time	activity
09.15	with coach	09.10	serving practice	08.55	watch video	08.55	watch video
10.00	serving practice	09.35	play game	09.35	play game	09.35	serving practice
10.20	ball machine	11.05	with coach	11.05	serving practice	10.00	with coach
10.45	play game	11.50	ball machine	11.35	ball machine	10.45	play game
11.30	watch video	12.10	watch video	11.50	with coach	11.30	ball machine
12.10	lunch	12.50	lunch	12.35	lunch	12.00	lunch

3 (a) How long did Michael spend with the coach?
(b) Who spent most time at
• the ball machine • serving practice?
(c) Which children do you think played games of tennis together and for how long?
(d) Which children do you think watched the video together and for how long?
(e) Make out the Thursday morning timetable for the tennis coach.

R28 H53

Eurotravel enquiries

90

Time: 24-hour clock, counting on

How long should it take me to drive from Glasgow to Tarbert?

It takes about 3 hours.

1 Write, **in 24-hour time**, when Bill could expect to arrive in Tarbert if he leaves Glasgow at (a) 09.30 (b) 14.15 (c) 17.50

2 Write the arrival time for each person's journey.

	John	Fiona	Steve	May	Jo
leaves at	08.05	07.16	12.00	13.25	17.45
journey time	3 hours	5 hours	2 hours	4 hours	6 hours

How long does it take to travel from Heathrow to London?

The train takes about 50 minutes.

3 Write Jane's expected arrival time in London if she leaves Heathrow at (a) 08.10 (b) 14.45 (c) 16.25

4 Write each arrival time.

	Ann	Marie	Don	Kate	Hal
leaves at	16.25	07.35	08.20	11.10	18.40
journey time	45 min	50 min	40 min	55 min	35 min

How much time will it take to drive from Calais to Paris?

You need to allow about $5\frac{1}{4}$ hours.

5 Write Jim's expected arrival time in Paris if he leaves Calais at
(a) 07.25 (b) 11.05 (c) 13.15 (d) 16.45

6 Do Workbook page 16, question 1.

7 Write each arrival time.

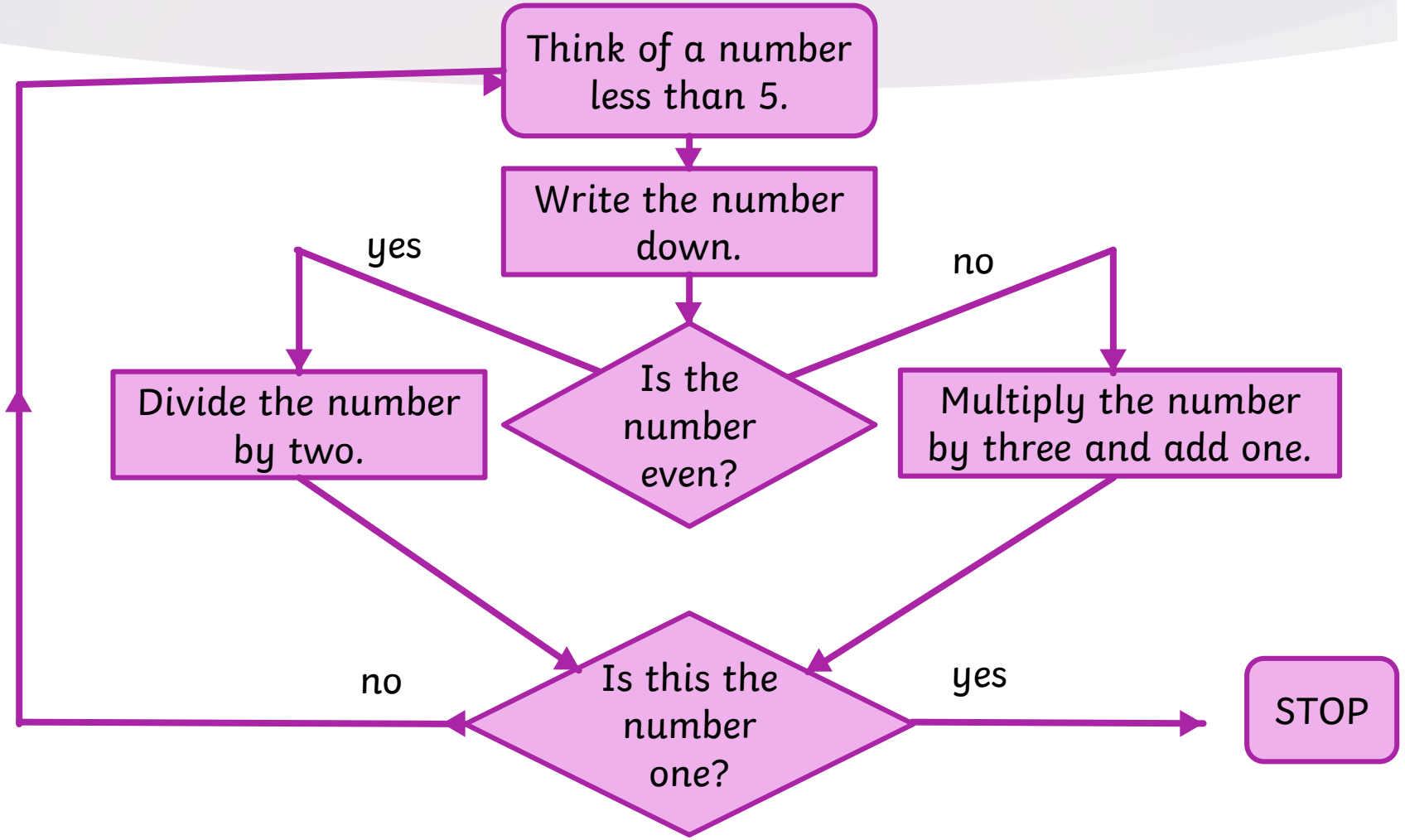
	Donna	Dave	Norman	Sharon	Cara
leaves at	06.20	11.20	12.35	14.50	17.45
journey time	4 h 50 min	3 h 45 min	5 h 30 min	3 h 25 min	5 h 40 min

H54

MATHS RIDDLES

1. Dora died at a very old age on her 24th birthday. How can this be?
2. Why are Saturday and Sunday so powerful?
3. You have one in the spring, summer and winter but you don't get it in Autumn. What is it?

Morning Challenge 25.02.21



Mini Maths

25.02.21

CHOOSE YOUR SPICE!!!

Mild

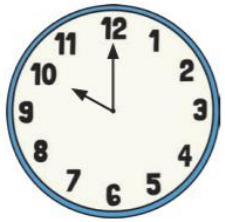
Medium

Hot

Mild

Time: Forwards and Backwards

2. Imrik is going to start football training in one hour. It is now this time:



What time will it be when he starts his training?

Time

3. Joshua watches his favourite programme. It starts at 4 o'clock and finishes at quarter to 5. The adverts in the middle were 5 minutes long.

How long was the television programme?

It's Getting Hot!

Medium

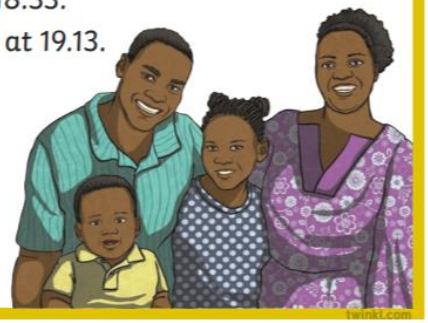
Time Word Problem Challenge Cards

15. Ryan went to the cinema to watch a film. It started at 3:15 p.m. and ended at 5:25 p.m. How long was the film?

Time

3. The Stanley family are going on their holidays to Devon.
   Dad puts the postcode into the satnav.
   The satnav says their journey will take 4 hours and 50 minutes.
   They are leaving at 14.23.
   Lily says they will be there at 18.33.
   Frankie says they will be there at 19.13.

   Who is correct?
   How do you know?



Burning Up!

Hot

Hours and Days

An online company promises delivery within 48 hours. How many days is that?

Medicine needs to be taken once every 6 hours. How many days will 32 tablets last?

How many hours in a week?

twinkl.co.uk

Take the train

Here is a train timetable.

Sheffield	Departs	12:58	13:29	13:49	14:29	14:49	15:29
London St Pancras	Arrives	14:59	15:31	15:59	16:32	17:07	17:29
Duration							
Duration in Minutes							

1. Work out the duration of each journey in hours and minutes.
2. Convert the duration of the journeys into minutes.

twinkl.co.uk

26.02.21

LI: to use my knowledge of number operations to break the code

Mini Maths

26.02.21

CHOOSE YOUR SPICE!!!

Mild

Medium

Hot

Nice and Spicy!

Mild

Solar System

Code Breaker

Amazing Fact

The sun is so big that it could fit approximately 1.3 million Earths inside it (if they were squashed up).

Challenge

Crack the codes on the following page using the table below to work out the solar system words.

a	b	c	d	e	f	g	h	i	j	k	l	m
1	2	3	4	5	6	7	8	9	10	11	12	13

n	o	p	q	r	s	t	u	v	w	x	y	z
14	15	16	17	18	19	20	21	22	23	24	25	26

You could also try to find out:

- what the sun would look like from the other planets in our Solar System;
- what the biggest planet is in our Solar System;
- how far away Earth is from the Sun.

An Amazing Fact a Day

Solar System

Code Breaker

20 - 1 = _____

13 + 7 = _____

16 - 15 = _____

12 + 6 = _____

9 + 10 = _____

Word: _____

10 + 4 = _____

15 - 10 = _____

8 + 8 = _____

20 + 0 = _____

25 - 4 = _____

7 + 7 = _____

13 - 8 = _____

Word: _____

12 - 9 = _____

7 + 8 = _____

5 + 8 = _____

12 - 7 = _____

12 + 8 = _____

15 + 4 = _____

Word: _____

6 + 7 = _____

16 - 11 = _____

10 + 8 = _____

7 - 4 = _____

14 + 7 = _____

26 - 8 = _____

31 - 6 = _____

Word: _____

Medium

Emoji Code Breaking

5	2	7	3	4	9	6	8	0	1

+ = 97

1. + =
2. − =
3. − =
4. + =
5. + =
6. − =
7. + =
8. − =
9. + =
10. − =

Extension: create your own code breaker and post it on our class Teams. Let's see if anyone can break it!

Hot

Code Busters

I can perform mental calculations with increasingly large numbers.

Draw a line to match each word problem to the corresponding answer in code.

Δ	Ω	μ	π	∞	∏	∑	√	◊	‡
0	1	2	3	4	5	6	7	8	9

I am $\frac{2}{3}$ the age of my brother. He is three times younger than my mother. My mother is 54 years old. How old am I?	∏ μ Δ
Plants are 37p each. A tray contains 10 plants; a box contains ten trays. If I buy a box of plants, how much would it cost in pence?	Ω Δ ◊ ‡
For my holiday to France, I need to change some money. For every £1 I exchange, I receive 1.62 Euros. If I change £40, how many more Euros will I need to make 70 Euros?	μ ∏ μ Δ
In a half-price sale, I buy a CD player for £15.50, a mobile phone cover for £3.80 and a DVD for £5.90. What would have been the total I would have paid for these items if there had not been a sale?	π √ Δ Δ
Francois is having a new carpet fitted. The carpet costs £420 but Francois must add on 15% to the price to have the carpet fitted. How much does it cost to buy the carpet and have it fitted?	Ω μ
I have read 184 pages of my 2546 page book. How many pages must I read until I reach the middle?	∞ ◊ π

Extension: create your own code breaker and post it on our class Teams. Let's see if anyone can break it!