

Monday use line graphs to solve problems



Tuesday read and interpret tables



Wednesday two-way tables



Thursday timetables



Friday mini assessment



Monday 19th October
2020

Arithmetic

Some of the questions we have to answer rely on us using the inverse to find numbers which have been missed out of the calculations.

$$67 - ?_4 = 13$$

What added to 13 makes 67?

$$3 + 4 = 7$$

$$50 + 10 = 60$$

So 57 is the missing number

We could also say

$$\begin{array}{r} 67 \\ -13 \\ \hline 54 \end{array}$$

Choose the set that challenge you the best.

1) $32 + ?5 = 97$

2) $4? + 26 = 67$

3) $?6 + 63 = 109$

4) $5? + 17 = 72$

5) $4? + 73 = 115$

6) $7? + 55 = 133$

7) $1?5 + 34? = 512$

1) $653 + ??? = 764$

2) $761 + ??? = 1037$

3) $87? + 3?4 = 1220$

4) $546 = ??? + 208$

5) $45 = ?? + 37$

6) $2873 = 1598 + 12??$

7) $73 + 1? + ?4 = 105$

Answers

1) $12 + 24 = 36$

2) $44 + 15 = 59$

3) $7 + 21 = 28$

4) $73 + 21 = 94$

5) $34 + 22 = 56$

6) $66 + 11 = 77$

7) $34 = 11 + 23$

1) $32 + 65 = 97$

2) $41 + 26 = 67$

3) $46 + 63 = 109$

4) $55 + 17 = 72$

5) $42 + 73 = 115$

6) $78 + 55 = 133$

7) $165 + 347 = 512$

1) $653 + 111 = 764$

2) $761 + 276 = 1037$

3) $876 + 344 = 1220$

4) $546 = 338 + 208$

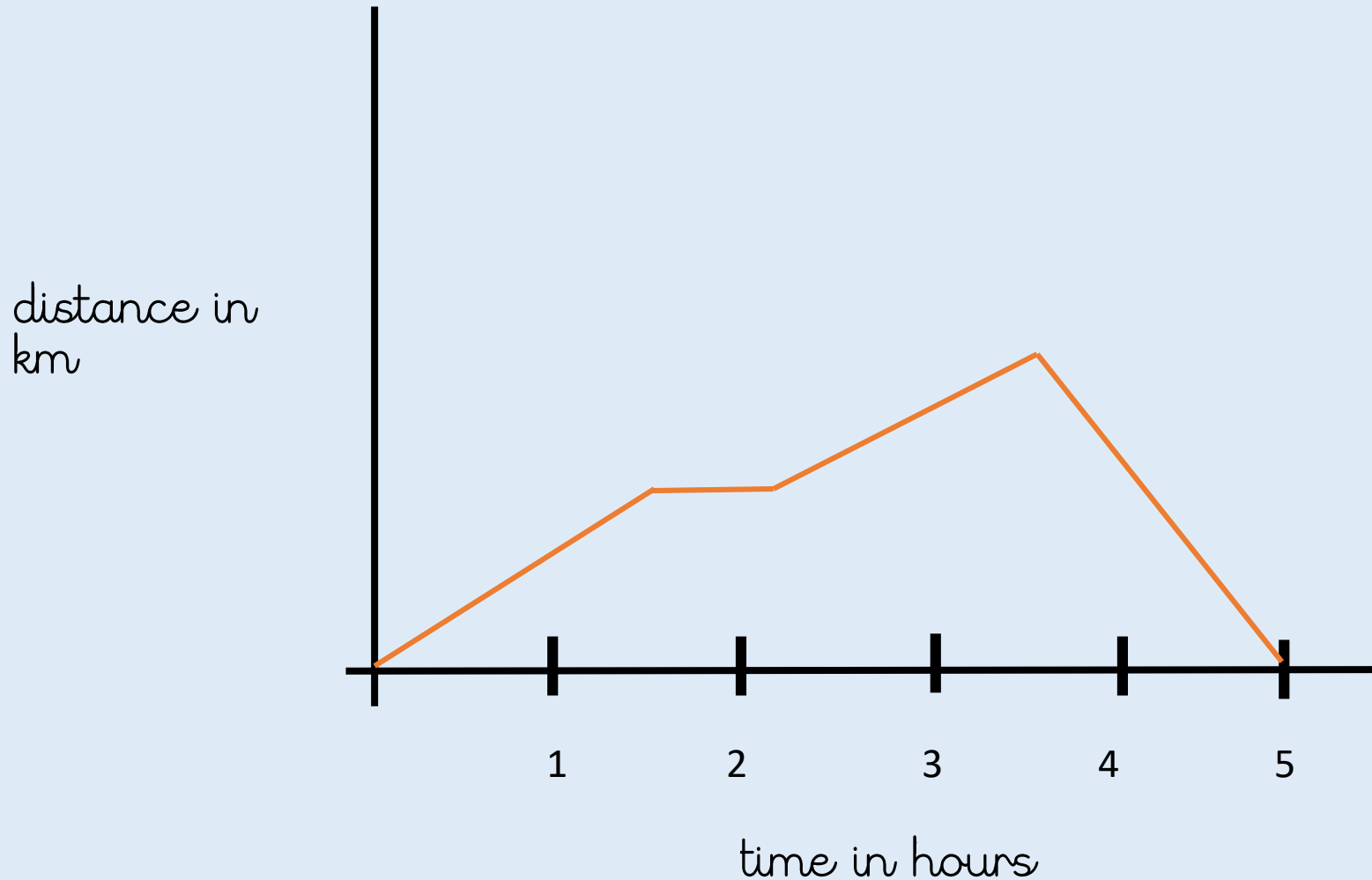
5) $45 = 08 + 37$

6) $2873 = 1598 + 1275$

7) $73 + 18 + 14 = 105$

Prepare to learn

A graph showing the distance from home Alexis cycles.



- 1) What time did Alexis stop to eat?
- 2) What happened after three and a half hours?

Answers

- 1) Alexis stopped after one and a half hours. We can tell because the line goes flat, showing that he has stopped moving.
- 2) He starts cycling home. The line shows the distance from home is reducing.

19/10/2020

LO: solve comparison, sum and difference problems using information presented in a line graph

C: I can identify details from a line graph

D: I can solve problems by using data from a line graph I have drawn

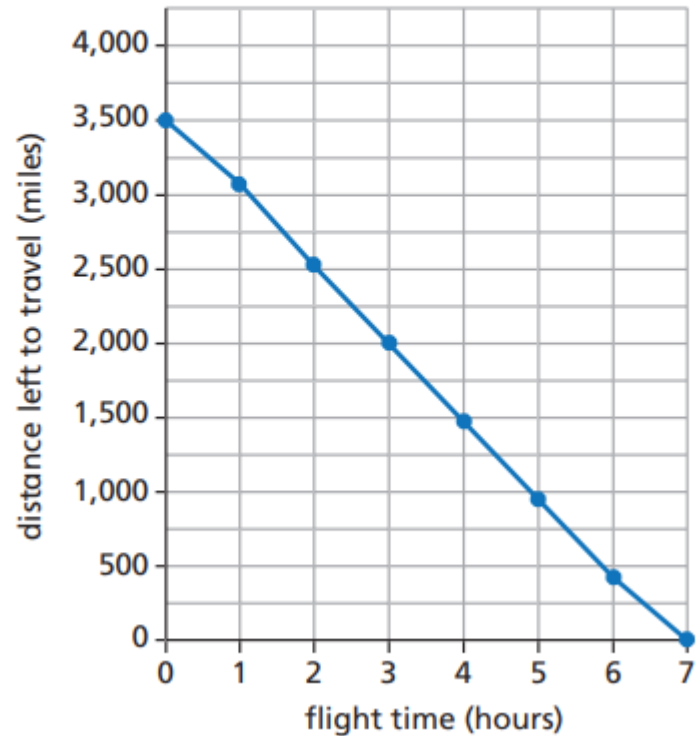
GD: I can identify errors by using a line graph to prove my ideas

Last week, we looked at line graphs.

This week we will create a graph to answer questions we have made.

We will start with a little revision.

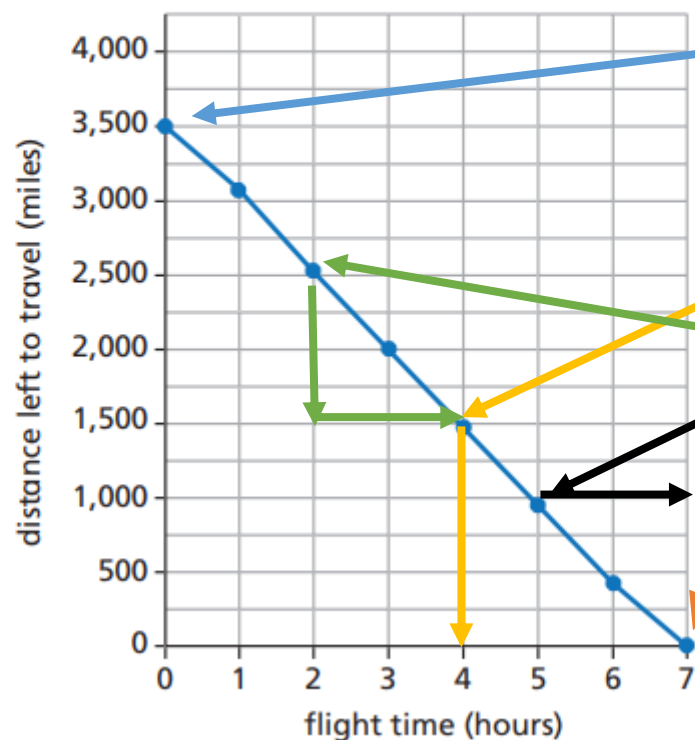
- 1 This graph shows how many miles an aeroplane has left to travel each hour on its journey from London to New York.



- a) How many hours is the flight?
- b) How many miles is the journey from London to New York?
- c) After 4 hours, how many more miles are left to travel?
- d) How long does it take to fly the final 1,000 miles?
- e) How many miles does the plane travel between 2 hours and 4 hours into the flight?

1

This graph shows how many miles an aeroplane has left to travel each hour on its journey from London to New York.



a) How many hours is the flight?

b) How many miles is the journey from London to New York?

c) After 4 hours, how many more miles are left to travel?

d) How long does it take to fly the final 1,000 miles?

e) How many miles does the plane travel between 2 hours and 4 hours into the flight?

Answers

a) 7 hours

b) 3,500 miles

c) $\approx 1,450$ miles

d) ≈ 2.2 hours

e) $\approx 1,200$ miles

We are going to draw a line graph looking at the pulse rates of two children who have been doing exercise.

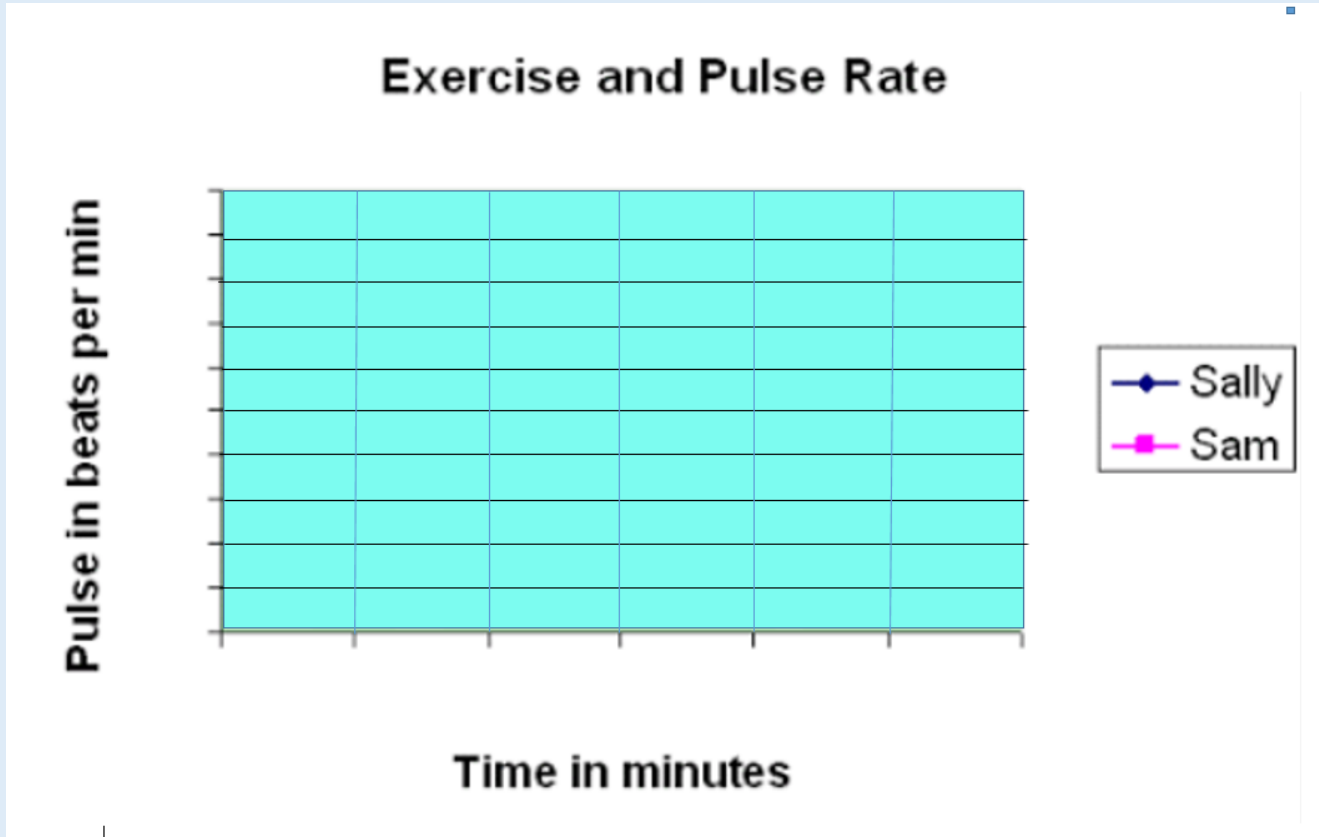
To begin with, we are going to create some questions about the children, Sally and Sam.

What do we want to know about them and what happens to their pulse rate when they exercise?

Which of these questions might we be able to answer by using a line graph?

Let's write them down in our books.

Look at the axes below



You all have a graph sheet and a table of data.

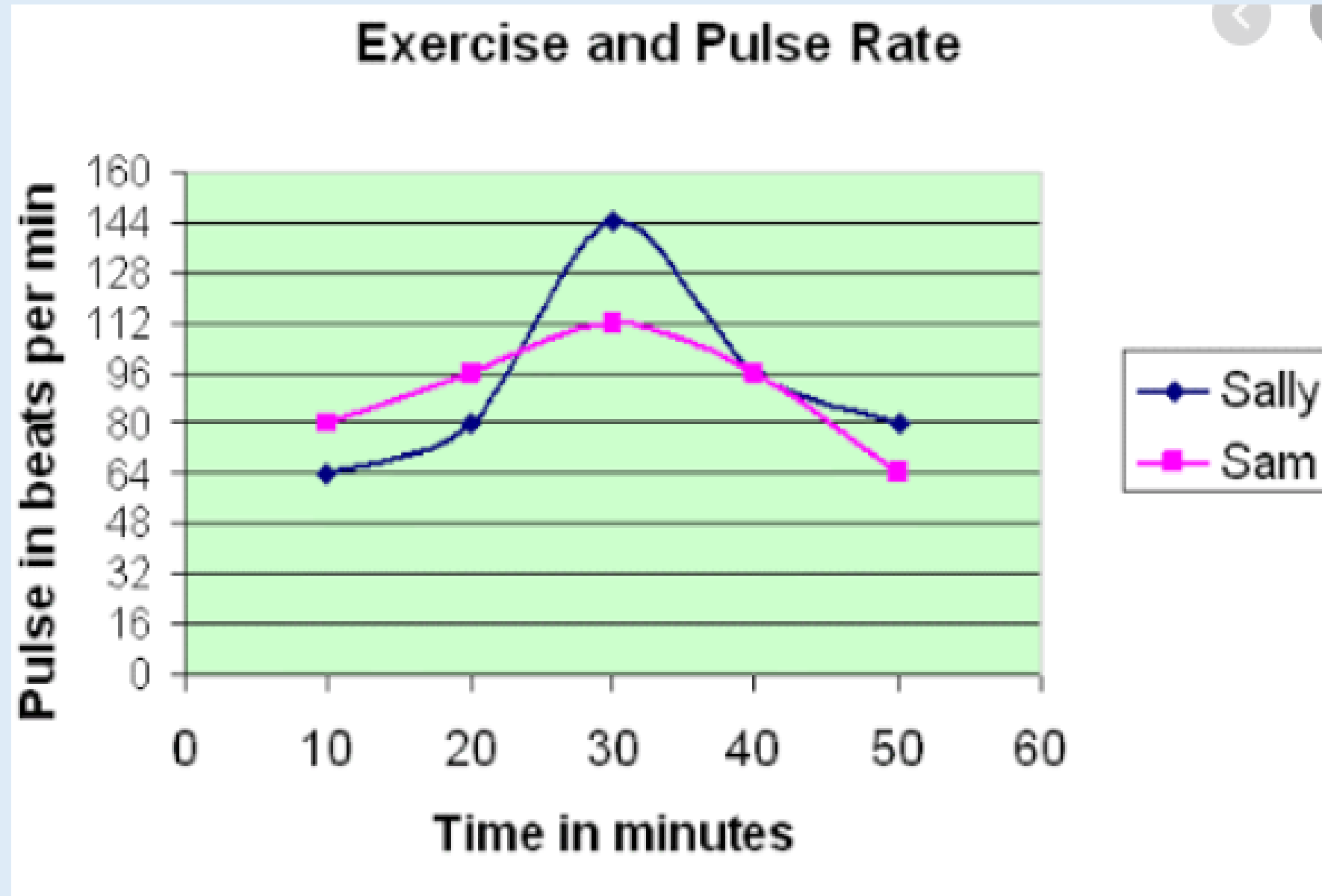
First, some of you need to complete the axes.

Then plot Sally's data on the graph and join the points with a coloured pencil crayon (use a ruler).

Next, plot Sam's data and use a different colour to draw the line.

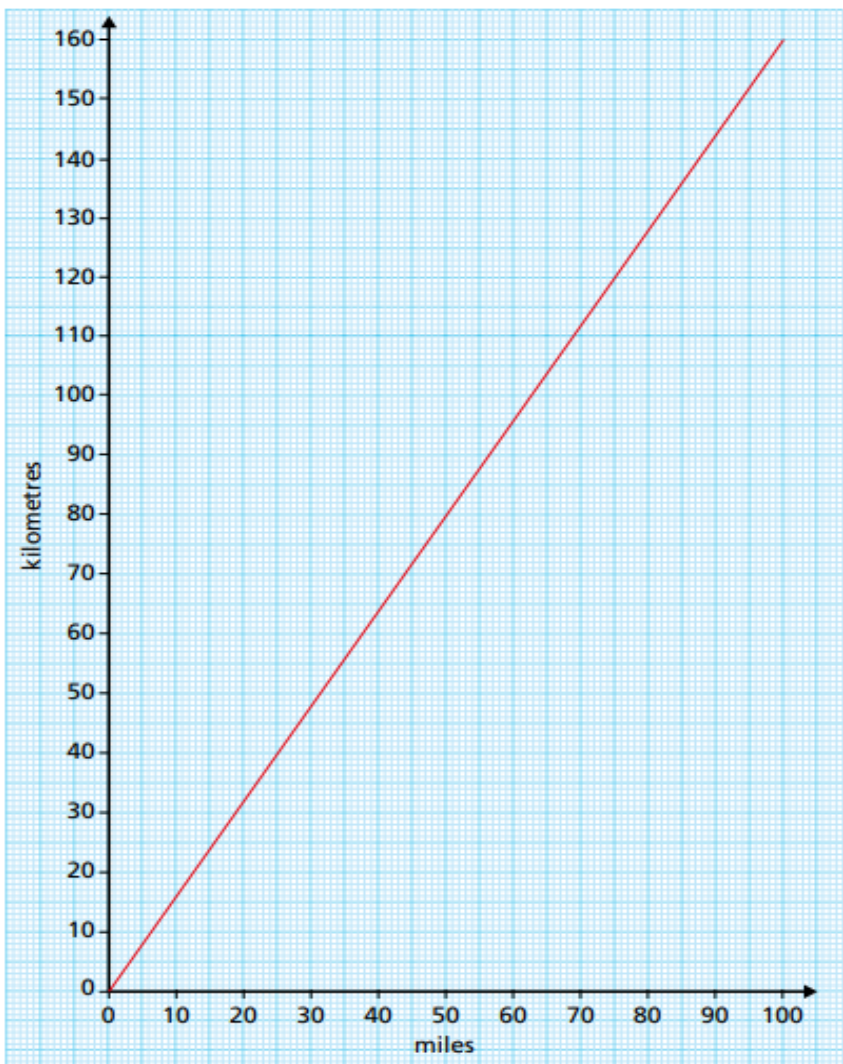
Can we answer our questions?

Answers



Challenge

This graph shows the conversion between miles and kilometres.



a) How many kilometres are there in 50 miles?

b) How many miles are there in 130 km?

c) Explain to a partner how you worked out the answers to part a) and b).

d) Eva cycles 60 miles.

Dexter cycles 80 km.

Who cycles the furthest? _____

How much further does the person cycle?

e) Ron wants to convert 800 km into miles.



I can't do it
because my graph doesn't
go high enough.

Ron is incorrect. Explain why.

Complete the conversion.

Show your working.

800 km = miles

f) A high-speed train can travel up to 400 km in an hour.

How many miles can it travel in an hour?



Answers

- a) 80 km
- b) 81 miles
- c) To work out how many kilometres in 50 miles, draw a line up from 50 miles on the horizontal axis and draw across to the vertical axis from where this meets the graph. To work out how many miles in 130 km, draw a line across from 130 km on the vertical axis and draw down to the horizontal axis from where this meets the graph.
- d) Eva
10 miles
- e) Ron can convert 80 km into miles and then multiply his answer by 10.
 $800 \text{ km} = 500 \text{ miles}$
- f) 250 miles

Tuesday 20th October
2020

Arithmetic

When we count, we count in 10s, 100s and so on, but when we measure time, we count in 60s.

1 hour 20 minutes + 1 hour 45 minutes = 2 hours 65 minutes

Sixty minutes make an hour, so, 65 minutes make 1 hour 5 minutes

1 hour 20 minutes + 1 hour 45 minutes = 3 hours 5 minutes

2 hours 10 minutes - 40 minutes means we have to readjust.
Remember, when we move an hour, we are moving 60, not 10.

We would look at 1 hour 70 minutes - 40 minutes = 1 hour 30 minutes.

Select the set that challenges you the best.
Answer in hours and minutes

1) $25\text{mins} + 30\text{mins}$

2) $15\text{mins} + 40\text{mins}$

3) $50\text{mins} + 20\text{mins}$

4) $1\text{hr } 20\text{mins} + 40\text{mins}$

5) $1\text{hr} - 30\text{mins}$

6) $55\text{mins} - 20\text{mins}$

7) $1\text{hr } 10\text{mins} - 20\text{mins}$

1) $50\text{mins} + 20\text{mins}$

2) $1\text{hr} - 35\text{mins}$

3) $1\text{hr } 15\text{mins} + 45\text{mins}$

4) $2\text{hrs } 30\text{mins} + 50\text{mins}$

5) $3\text{hrs} - 2\text{hrs } 22\text{mins}$

6) $2\text{hrs} - 1\text{hr } 15\text{mins}$

7) $3\text{hr } 22\text{mins} + 2\text{hrs } 56\text{mins}$

Answers

1) 5mins + 10mins 15mins

2) 20mins + 5mins 25mins

3) 30mins + 30mins 1hr
(60mins)

4) 30mins - 10mins 20mins

5) 20mins - 5mins 15mins

6) 1hr - 30mins 30mins

7) 1hr 22mins - 12mins
1hr 10mins

1) 25mins + 30mins 55mins

2) 15mins + 40mins 55mins

3) 50mins + 20mins 1hr 10mins

4) 1hr 20mins + 40mins 2hrs

5) 1hr - 30mins 30mins

6) 55mins - 20mins 35mins

7) 1hr 10mins - 20mins 50mins

1) 50mins + 20mins 1hr 10mins

2) 1hr - 35mins 25mins

3) 1hr 15mins + 45mins 30mins

4) 2hrs 30mins + 50mins 1hr
40mins

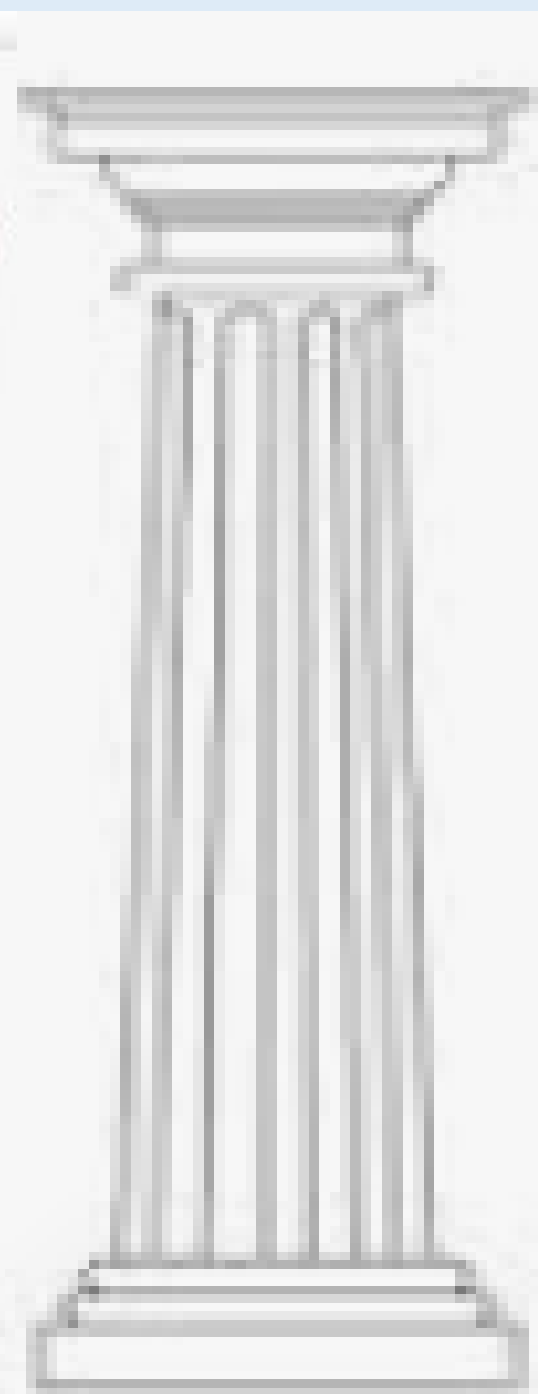
5) 3hrs - 2hrs 22mins 38mins

6) 2hrs - 1hr 15mins 45mins

7) 3hr 22mins + 2hrs 56mins
6hrs 18mins

Prepare to learn

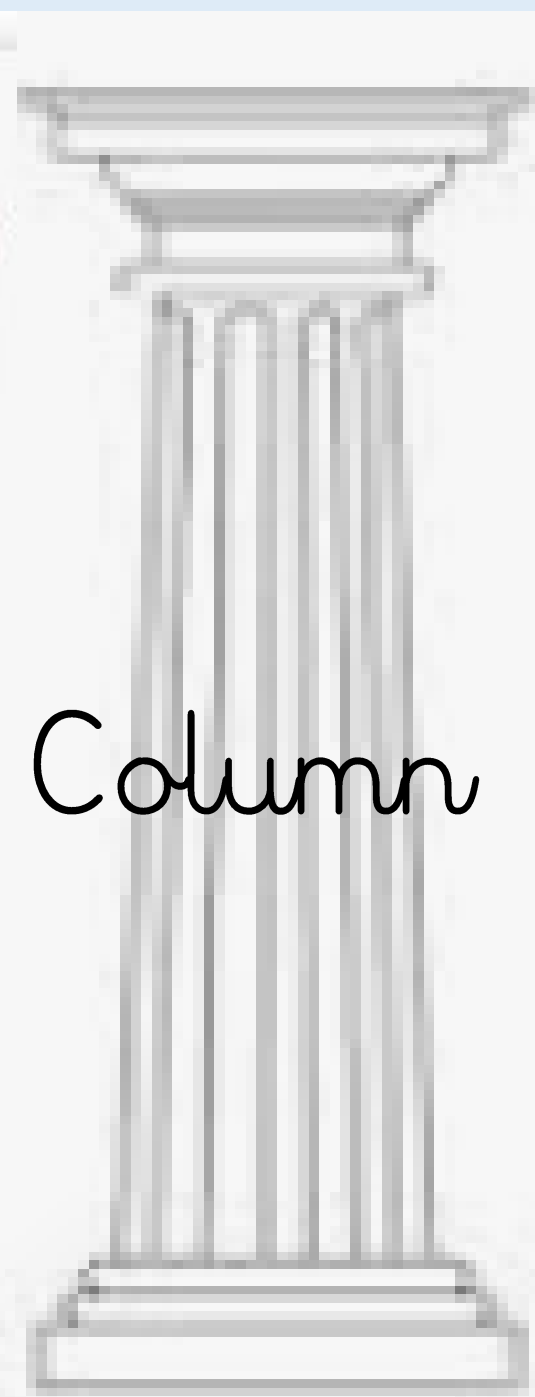
Which is the odd one out?



Prepare to learn

Which is the odd one out?

ANSWERS



20/10/2020

LO: complete, read and interpret information in tables, including timetables

C: I can read information in tables

D: I can solve problems by using data given in tables

GD: I can explain how I have used tables to identify details and errors

Vocabulary

row column data information heading extract

column

Let's work these out together.



Here is a table with information about planets. Use the table to answer the questions.

Planet	Time for Revolution	Diameter (km)	Time for Rotation
Mercury	88 days	4,878	59 days
Venus	225 days	12,104	243 days
Earth	365 days	12,756	24 hours
Mars	687 days	6,794	25 hours
Jupiter	12 years	142,984	10 hours
Saturn	29 years	120,536	11 hours
Uranus	84 years	51,118	17 hours
Neptune	165 years	49,500	17 hours

row →

How many planets take more than one day to rotate?

Which planets take more than one year to make one revolution?

Write the diameter of Jupiter in words.

What is the difference between the diameter of Mars and Earth?

What is the difference between the time for rotation between Mercury and Venus?

ANSWERS



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Which planets take more than one year to make one revolution?

Write the diameter of Jupiter in words.

What is the difference between the diameter of Mars and Earth?

What is the difference between the time for rotation between Mercury and Venus?

3

4

one hundred and forty-two thousand, nine hundred and eighty-four

5962 km

184 days

Try this one by yourself.

Use the table to answer the questions.

City	Leeds	Wakefield	Bradford	Liverpool	Coventry
Population	720,000	316,000	467,000	440,000	305,000

- a) What is the difference between the highest and lowest population?
- b) Which two cities have a combined population of 621,000?
- c) How much larger is the population of Liverpool than Coventry?

Answers

a) 415,000

b) Wakefield and Coventry

c) 135,000

Independent Work

LO: To be able to read and interpret tables

The table shows the weight of five dogs, to the nearest kilogram.

Name of dog	Weight
Buster	12 kg
Misty	26 kg
Titch	14 kg
Henry	
Patch	

a) What is the total weight of Buster and Titch?

b) Henry is 10 kg heavier than Misty.

Write Henry's weight in the table.

c) Patch is heavier than Titch but weighs less than Misty.

Write the dogs names in order of weight, starting with the lightest.

Here are the temperatures in four cities at midnight and at midday.

City	Temperature	
	At midnight	At midday
Paris	-4°C	-2°C
Oslo	-13°C	-7°C
Rome	3°C	10°C
Warsaw	-6°C	2°C

At midnight, how many degrees colder was Paris than Rome?

 degrees

Which city was 6 degrees colder at midnight than at midday?

Core 2

Five children took part in a chess competition.

They each played six games.

This table shows how many games each child won, drew or lost.

	won	drew	lost
Alfie	1	3	2
Megan	2	2	2
Chen	3	3	0
Donna	4	0	2
Tom	0	5	1

How many children drew more games than they lost?

Each child scores two points for a win,
one point for a draw,
no points for a loss.

Who scored the most points?

The table shows the average summer temperature for different cities.

City	London	Edinburgh	Paris	Madrid	Rome	Berlin
Temperature (°C)	21	15	25	31	30	22

a) What is the average summer temperature in Paris?

b) Which city has the warmest average temperature during

the summer?

c) What is the difference in average temperature between Berlin and Edinburgh?

d) Which two cities have a difference of just one degree in average summer temperature?

Depth

Kirsty, Seb, Mina, Jack and Donna belong to a sports club.

This table shows the sports they do in one week.

	Mon	Tues	Wed	Thurs	Fri
Swimming	Kirsty Jack		Jack	Kirsty Donna	Donna
Jogging	Seb	Mina			Mina Kirsty Jack
Cycling		Kirsty Donna		Jack	Seb

How many of the children do **not** go swimming?

Write the names of all the children who go **both** jogging **and** cycling.

Teachers asked children how they travel to school.

The tables show how the children in Year 4 and Year 5 travel to school.

Year 4

Method of travel	Walk	Bike	Car	Bus
Number of children	18	1	10	0

Year 5

Method of travel	Walk	Bike	Car	Bus
Number of children	17	3	7	1

a) What is the most common method of travel in both year groups?

b) How many more children travel by car in Year 4 than in Year 5?

c) Which year has the most children?

ANSWERS

Tuesday 20th October Core

LO: To be able to read and interpret tables

The table shows the weight of five dogs, to the nearest kilogram.

Name of dog	Weight
Buster	12 kg
Misty	26 kg
Titch	14 kg
Henry	
Patch	

a) What is the total weight of Buster and Titch?

26kg

b) Henry is 10 kg heavier than Misty.

36kg

Write Henry's weight in the table.

c) Patch is heavier than Titch but weighs less than Misty.

Write the dogs names in order of weight, starting with the lightest.

Buster Titch Patch Misty Henry

Here are the temperatures in four cities at midnight and at midday.

City	Temperature	
	At midnight	At midday
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Warsaw	-6°C	2°C

At midnight, how many degrees colder was Paris than Rome?

7degrees

Which city was 6 degrees colder at midnight than at midday?

Oslo

Core 2

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Megan	2	2	2
Chen	3	3	0
Donna	4	0	2
Tom	0	5	1

How many children drew more games than they lost?

3

Each child scores two points for a win, one point for a draw, no points for a loss.

Who scored the most points?

Chen

The table shows the average summer temperature for different cities.

City	London	Edinburgh	Paris	Madrid	Rome	Berlin
Temperature (°C)	21	15	25	31	30	22

a) What is the average summer temperature in Paris?

25

b) Which city has the warmest average temperature during the summer?

Madrid

c) What is the difference in average temperature between Berlin and Edinburgh?

7

d) Which two cities have a difference of just one degree in average summer temperature?

Madrid/Rome

Depth

Kirsty, Seb, Mina, Jack and Donna belong to a sports club.

This table shows the sports they do in one week.

	Mon	Tues	Wed	Thurs	Fri
Swimming	Kirsty Jack		Jack	Kirsty Donna	Donna
Jogging	Seb	Mina			Mina Kirsty Jack
Cycling		Kirsty Donna		Jack	Seb

How many of the children do **not** go swimming?

2

Write the names of all the children who go **both** jogging **and** cycling.

Seb Jack Kirsty

Teachers asked children how they travel to school.

The tables show how the children in Year 4 and Year 5 travel to school.

Year 4					Year 5				
Method of travel	Walk	Bike	Car	Bus	Method of travel	Walk	Bike	Car	Bus
Number of children	18	1	10	0	Number of children	17	3	7	1

a) What is the most common method of travel in both year groups?

Walking


b) How many more children travel by car in Year 4 than in Year 5?

3

c) Which year has the most children?

4

Greater Depth

The table shows the number of ice creams sold in a shop last week. 

Day	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Ice creams sold	15	27	13	19	2	46	38

The shop sold more ice creams in total on Saturday and Sunday than during the rest of the week.



Do you agree with Alex? _____

Explain your reasons.

- 6 Class 5B did a survey to find out the types of pets children had at home.

Dog	Cat	Hamster	Rabbit	Goldfish



Dora

There are 24 children in the class.

We do not know how many children are in the class.



Rosie

There are more than 24 children in the class.



Amir

Who is correct? _____

Explain your answer.

Challenge!

On Monday all the children at Grange School each play one sport.

They choose either hockey or rounders.



There are **103** children altogether in the school.

27 girls choose hockey.

Write all this information in the table.

Then complete the table.


	hockey	rounders	Total
boys	22		
girls			53
Total			

Greater Depth

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Ice creams sold	15	27	13	19	2	46	38

The shop sold more ice creams in total on Saturday and Sunday than during the rest of the week.



Do you agree with Alex?

Yes, 76 in the week


84 weekend

Explain your reasons.

6


Class 5B did a survey to find out the types of pets children had at home.

Dog	Cat	Hamster	Rabbit	Goldfish




Dora

There are 24 children in the class.



Rosie

We do not know how many children are in the class.



Amir

There are more than 24 children in the class.


Who is correct? —


Explain your answer.

Rosie. Not all kids have pets. Some may have more than one.

Challenge

On Monday all the children at Grange School each play one sport. They choose either hockey or rounders.





There are 103 children altogether in the school.

27 girls choose hockey.

Write all this information in the table. Then complete the table.

	hockey	rounders	Total
boys	22	28	50
girls	27	26	53
Total	49	54	103

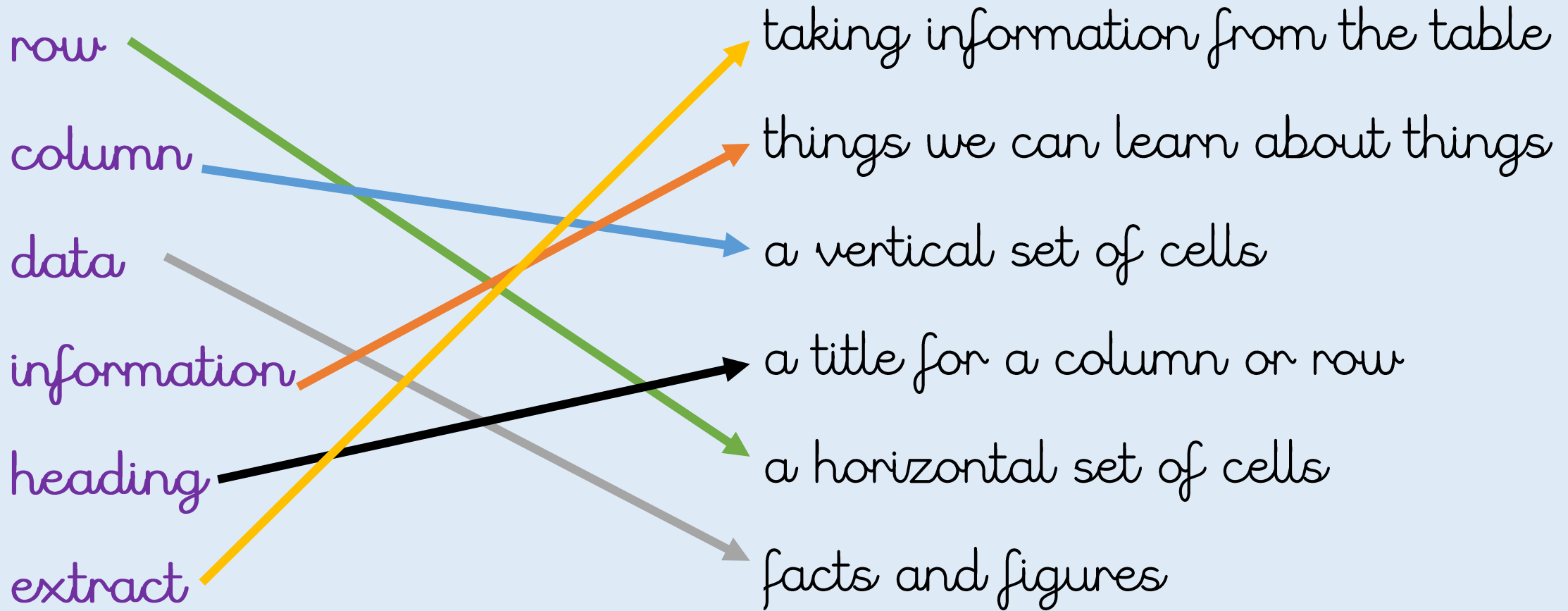
Review

Link each word to the definition

row	taking information from the table
column	things we can learn about things
data	a vertical set of cells
information	a title for a column or row
heading	a horizontal set of cells
extract	facts and figures

Review Answers

Link each word to the definition



Wednesday 21st October 2020

Arithmetic

Addition and subtraction

Remember to set the columns correctly. There will be regrouping in some calculations. Choose your challenge.

1) $46,542 + 23,467$

1) $368.989 + 476,819$

2) $2,367 + 54,456$

2) $513,909 + 879,957$

3) $57,638 - 2,587$

3) $761,357 - 583,392$

4) $62,362 - 44,674$

4) $1,356,210 - 377,428$

5) $194,426 + 649,499$

5) $473,440 + 699,730$

ANSWERS

$$1) 347 + 486$$

833

$$2) 709 + 275$$

984

$$3) 166 + 378$$

544

$$4) 953 + 324$$

1277

$$5) 846 - 237$$

609

$$6) 720 - 317$$

403

$$1) 46,542 + 23,467$$

70,009

$$2) 2,367 + 54,456$$

56,823

$$3) 57,638 - 2,587$$

55,051

$$4) 62,362 - 44,674$$

17,688

$$5) 194,426 + 649,499$$

843,925

$$1) 368.989 + 476,819$$

845,808

$$2) 513,909 + 879,957$$

1,393,866

$$3) 761,357 - 583,392$$

177,965

$$4) 1,356,210 - 377,428$$

978,782

$$5) 473,440 + 699,730$$

1,173,170

Prepare to learn

Team	Result
Liverpool	Won 76
Manchester United	Won 174
Chelsea	Won 126
Liverpool	Lost 42
Manchester United	Lost 36
Chelsea	Lost 29
Liverpool	Drew 132
Manchester United	Drew 40
Chelsea	Drew 95

How easy is it to read this table?
Could we change it to make it better? How?

ANSWER

Everything is mixed up and hard to follow.

We could put all the results for the team next to each other.

We could add more columns so each result has a place next to the team.

21/10/2020

LO: complete, read and interpret information in tables, including timetables

C: I can read information in two way tables

D: I can solve problems by using data given in two way tables

GD: I can explain how I have used two way tables to identify details and errors

This two-way table shows the staff at Liverpool police station.

	Male	Female	Total
Constable	55	24	79
Sergeant	8	5	13
Inspector	2	4	6
Chief Inspector	1	1	2
Total	66	34	100

- How many female inspectors are there?
- How many male sergeants are there?
- How many constables are there altogether?
- How many people work at Liverpool police station?
- How many male inspectors and female constables are there altogether?

This is a two way table.

Look at how the number of male and female is shown by each rank so that it is easy to work out how many of each rank there are.

Have a go at answering the questions.

ANSWERS

This two-way table shows the staff at Liverpool police station.

	Male	Female	Total
Constable	55	24	79
Sergeant	8	5	13
Inspector	2	4	6
Chief Inspector	1	1	2
Total	66	34	100

- How many female inspectors are there?
- How many male sergeants are there?
- How many constables are there altogether?
- How many people work at Liverpool police station?
- How many male inspectors and female constables are there altogether?

There are 4 female inspectors

There are 8 male sergeants

There are 79 constables

100 people work at the station

26

Complete the table.

	Man United	Liverpool	Chelsea	TOTAL
Lost	36	42	29	
Won	174	76	126	
TOTAL				

What data is missing? Fill it in.

Can you see how this table is better than the one at the start in prepare to learn?

Can you think of any questions we could ask, based on the information on this table?

ANSWERS

Complete the table.

	Man United	Liverpool	Chelsea	TOTAL
Lost	36	42	29	107
Won	174	76	126	376
TOTAL	210	118	155	483

Team	Result
Liverpool	Won 76
Manchester United	Won 174
Chelsea	Won 126
Liverpool	Lost 42
Manchester United	Lost 36
Chelsea	Lost 29
Liverpool	Drew 132
Manchester United	Drew 40
Chelsea	Drew 95

You can see how much easier it is to follow the facts in the two-way table than the other table.

Independent work

Wednesday 21st October Core

LO: To be able to interpret two way tables

A film is shown twice a day at 3 pm and 7 pm.

The table shows the number of children and adults that see each show in one day.

	Adults	Children
3 pm showing	28	65
7 pm showing	58	12

a) How many children watched the 7 pm showing?

b) How many adults watched the film that day?

c) There are 100 seats in the cinema.

How many seats were empty at the 3pm showing?

d) Did more children or more adults watch the film?

Show your workings.

e) Why do you think fewer children watched the 7pm showing?

The table shows information about the eye colour of 100 people.

	Brown	Blue	Green	Total
Boys	12	25		70
Girls			8	
Total	29			100

a) Complete the table.

b) How many boys have green eyes?

c) How many girls have blue eyes?

d) How many more girls have brown eyes than blue eyes?

Wednesday 21st October Depth

LO: To be able to interpret two way tables

This table shows how many children own dogs and cats.

Fill in the missing gaps and answer the questions below.

	Boys	Girls	Total
Dogs		44	
Cats	38		
Total	125		245

- How many more boys have dogs than girls?
- How many more girls have cats than dogs?
- How many more children have dogs than cats?

The table below shows the distance in miles between some cities.

London				
3,459	New York			
5,938	6,736	Tokyo		
6,011	7,803	9,152	Cape Town	
10,553	9,929	7,819	6,845	Sydney

a) What is the distance between Sydney and Tokyo?

b) Which two cities are the furthest apart?

_____ and _____

c) Choose a city to start in and then two more different places to visit.

How far would you have to travel?

Greater Depth

- 4 Teams are awarded points for each event at a swimming gala. Some of the scores have accidentally been washed off!

	Breaststroke	Backstroke	Butterfly	Freestyle	Total
Yellow	405		210	395	1,970
Red	650	420		650	
Green	210		400		1,480
Blue		210	610	510	
Total	1,610		1,430	1,925	

Work out the missing scores and complete the table.

- 5 The table shows information about some of the world's tallest buildings.

Building	Country	Height (m)	Number of floors	Year completed
Burj Khalifa	UAE	828	163	2010
Shanghai Tower	China	632	128	2015
Abraj Al-Bait Clock Tower	Saudi Arabia	601	120	2012
Ping An Finance Centre	China	599	115	2017
Goldin Finance 117	China	597	128	2019

a) How tall is the tallest building?

b) Which building is 601 m tall?

c) Which two buildings have the same number of floors?

d) Which building was completed most recently?

e) How much taller is the Burj Khalifa than the Goldin Finance 117 building?

f) Three-fifths of the buildings are in China.

Is this statement correct? _____

Explain how you know.

ANSWERS

ANSWERS Core

LO: To be able to interpret two way tables

A film is shown twice a day at 3 pm and 7 pm.

The table shows the number of children and adults that see each show in one day.

	Adults	Children
3 pm showing	28	65
7 pm showing	58	12

a) How many children watched the 7 pm showing? **12**

b) How many adults watched the film that day? **86**

c) There are 100 seats in the cinema.
How many seats were empty at the 3pm showing? **7**

d) Did more children or more adults watch the film?
Show your workings. **12**

It finished past their bed time

e) Why do you think fewer children watched the 7pm showing?

The table shows information about the eye colour of 100 people.

	Brown	Blue	Green	Total
Boys	12	25	33	70
Girls	17	5	8	30
Total	29	30	41	100

a) Complete the table.

b) How many boys have green eyes? **33**

c) How many girls have blue eyes? **5**

d) How many more girls have brown eyes than blue eyes? **12**

Wednesday 21st October Depth

LO: To be able to interpret two way tables

This table shows how many children own dogs and cats.

Fill in the missing gaps and answer the questions below.

	Boys	Girls	Total
Dogs	87	44	131
Cats	38	76	114
Total	125	120	245

- How many more boys have dogs than girls? **43**
- How many more girls have cats than dogs? **32**
- How many more children have dogs than cats? **17**

The table below shows the distance in miles between some cities.

London				
3,459	New York			
5,938	6,736	Tokyo		
6,011	7,803	9,152	Cape Town	
10,553	9,929	7,819	6,845	Sydney

a) What is the distance between Sydney and Tokyo? **7,819**

b) Which two cities are the furthest apart?
London and **Sydney**

c) Choose a city to start in and then two more different places to visit.
How far would you have to travel?

Greater Depth

- 4 Teams are awarded points for each event at a swimming gala. Some of the scores have accidentally been washed off!

	Breaststroke	Backstroke	Butterfly	Freestyle	Total
Yellow	405	960	210	395	1,970
Red	650	420	210	650	1930
Green	210	500	400	370	1,480
Blue	345	210	610	510	1675
Total	1,610	2090	1,430	1,925	7055

Work out the missing scores and complete the table.

- 5 The table shows information about some of the world's tallest buildings.

Building	Country	Height (m)	Number of floors	Year completed
Burj Khalifa	UAE	828	163	2010
Shanghai Tower	China	632	128	2015
Abraj Al-Bait Clock Tower	Saudi Arabia	601	120	2012
Ping An Finance Centre	China	599	115	2017
Goldin Finance 117	China	597	128	2019

a) How tall is the tallest building? **828m**

b) Which building is 601 m tall? **Abraj Al-Bait Clock Tower**

c) Which two buildings have the same number of floors?
Shanghai tower / Goldin Finance 117

d) Which building was completed most recently? **Goldin Finance**

e) How much taller is the Burj Khalifa than the Goldin Finance 117 building? **231m**

f) Three-fifths of the buildings are in China.
Is this statement correct? **Yes, There are 5 buildings and three of them are in China**
Explain how you know.

Challenge

120 people were asked where they went on holiday during the summer months of last year.



Use this information to create a two-way table.

In June, 6 people went to France and 18 went to Spain.

In July, 10 people went to France and 19 went to Italy.

In August, 15 people went to Spain.

35 people went to France altogether.

39 people went to Italy altogether.

35 people went away in June.

43 people went on holiday in August.

ANSWERS

Challenge

120 people were asked where they went on holiday during the summer months of last year.



Use this information to create a two-way table.

In June, 6 people went to France and 18 went to Spain.

In July, 10 people went to France and 19 went to Italy.

In August, 15 people went to Spain.

35 people went to France altogether.

39 people went to Italy altogether.

35 people went away in June.

43 people went on holiday in August.

	June	July	August	Total
France	6	10	19	35
Italy	11	19	9	39
Spain	18	13	15	46
Total	35	42	43	120

Review

	Math's	English	Total
Girls			
Boys			
Total			

Here is a two way chart showing the favourite subject choices of pupils in the class.

Where will we get the data to fill it in?

Thursday 22nd October
2020

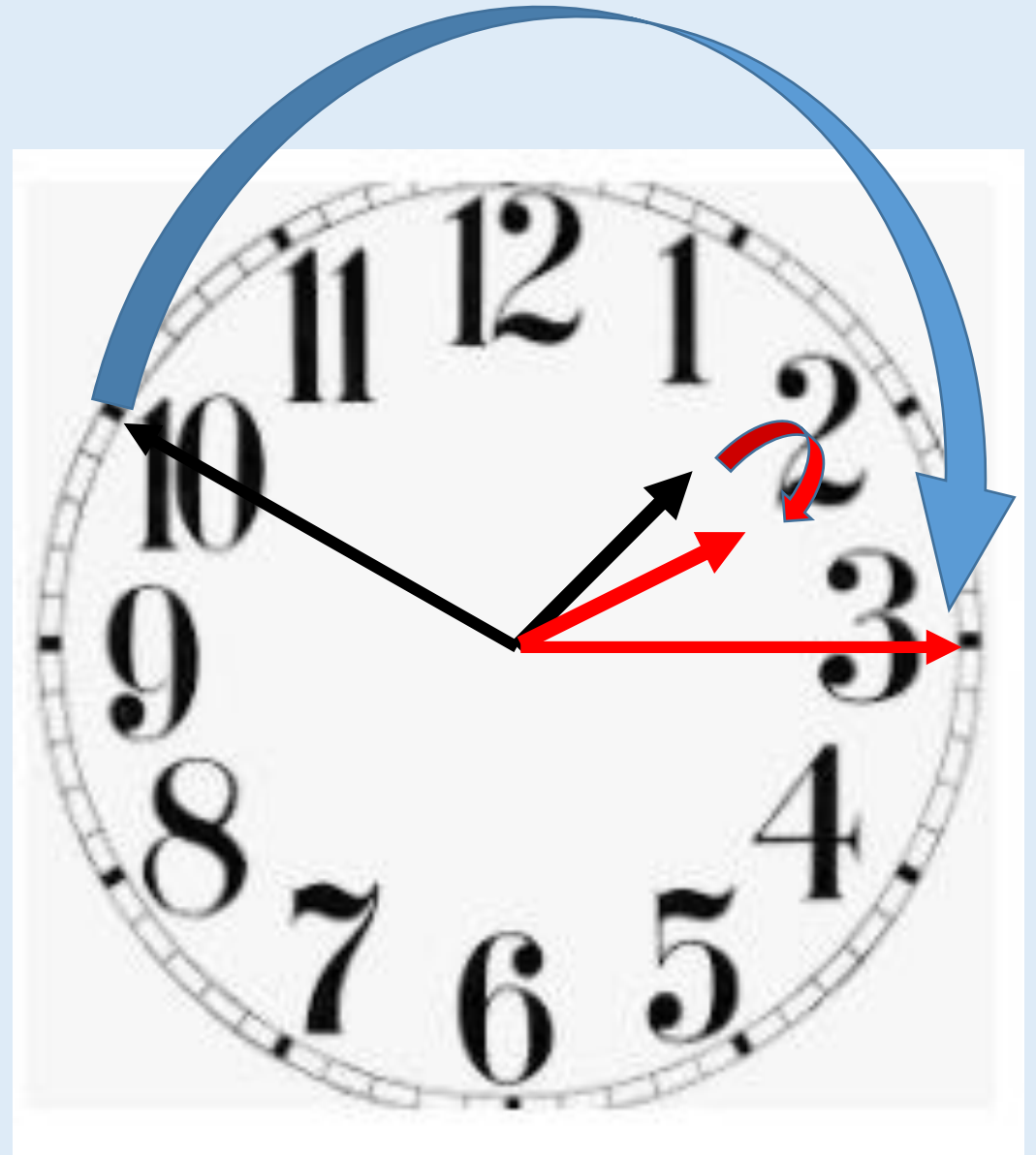
Arithmetic

When we do calculations with time, it can be useful to imagine a clock face and move the hand forward or backward to add or subtract.

Remember that each number on the clock face represents 5 minutes, so adding 20 minutes will move us on 4 numbers.

$$1:50 + 25 \text{ minutes} = 2:15$$

The minute hand goes 5 numbers and passes the hour (12)



Choose the set that best challenges you.

- | | |
|----------------------|------------------------|
| 1) 12:00 + 20mins | 1) 12:06 - 20mins |
| 2) 1:30 + 30mins | 2) 4:45 + 1hr 30mins |
| 3) 4:25 + 60mins | 3) 12:13 + 6hrs 19mins |
| 4) 2:50 + 1hr 25mins | 4) 7:24 - 5hrs 12mins |
| 5) 5:45 - 30mins | 5) 11:14 - 54mins |
| 6) 6:10 - 20mins | 6) 2:07 - 59mins |



ANSWERS

1) 1:00 + 20mins = 1:20

1) 12:00 + 20mins 12:20

1) 12:06 - 20mins 11:46

2) 3:10 + 6mins = 3:16

2) 1:30 + 30mins 2:00

2) 4:45 + 1hr 30mins 6:15

3) 4:25 + 2 hrs = 6:25

3) 4:25 + 60mins 5:25

3) 12:13 + 6hrs 19mins 6:32

4) 5:50 - 30mins = 5:20

4) 2:50 + 1hr 25mins 4:15

4) 7:24 - 5hrs 12mins 2:12

5) 2:15 - 7mins = 2:08

5) 5:45 - 30mins 5:15

5) 11:14 - 54mins 10:18

6) 12:45 - 15mins = 12:30

6) 6:10 - 20mins 5:50

6) 2:07 - 59mins 1:08

Prepare to Learn

Work with your shoulder partner to list the lessons we do each week.

ANSWER

YEAR 5 - Timetable – Week 8

	8.40-9.00	09:00-09:20am	9:20-9:40m	9:40-10.40	10:40-10:55	10:55-11:35	11:35-12:45	12:45-1:45	1:45-2:55pm (1hr 10 mins)	2:55-3:10pm	3.10-3.25
M	8:40 Pupil's comment on school Rf P 1:1 with TA's Registration and morning board SP by a range of different music - discuss	Well Being – Recovery Design a front cover for the music artist	Arithmetic	Maths Use line graphs to solve problems	BREAK	Reading Chapters 31 &32	Writing write	CLASS NOVEL LUNCH	Science Explain that some changes result in the formation of new materials	2:55-3:10pm Collective Worship	Need to be ready for collection from 3:10 Collection 3:25pm Collection 3:25pm
T P.E.		Well Being – Recovery Design a front cover for the music artist	Arithmetic	Maths Use and interpret tables		Reading Chapters 33 &34	PE		Writing		
W BCW		Only Arithmetic	BCW Art	BCW Art		BCW Art	BCW Art		BCW Art		
Th		9-9:40am Reading- Share poetry - rehearse	9:40-10:40am Writing - publish			10:55-11:15 Arithmetic	12:15-12:45 Maths Two-way tables		RE		
F		9-9:40am Guided Reading Poetry included perform	9:40-10:40am Writing Write – a rap			10:55-11:15 Arithmetic 11:15-12:15 Maths Mini assessment	Spelling Test. Diary Admin. H/work set Send out the new knowledge organisers	CLASS NOVEL	ICT	PSHE	

There are many ways that we could set the information out, but the way we do it at school is with a timetable that shows the times lessons start and finish along the top.

Down the side, there are the days of the week.

In the middle, there is room to put in the lessons inside boxes under the times.

22/10/2020

LO: complete, read and interpret information in tables, including timetables

C: I can read information in timetables

D: I can solve problems by using data given in timetables

GD: I can explain how I have used timetables to identify details and errors

We use timetables for a number of different purposes:

- lessons at school
- busses and trains
- cinema and theatre shows
- television schedules
- courses and conferences

Use the timetable to answer the questions.

	Bus Timetable				
Halifax	06:05	06:35	07:10	07:43	08:15
Shelf	06:15	06:45		07:59	08:31
Shelf Village	06:16	06:46	07:23	08:00	08:32
Woodside	06:21	06:50	07:28		
Odsal	06:26	06:55	07:33	08:15	08:45
Bradford	06:40	07:10	07:48	08:30	09:00

On the 06:35 bus, how long does it take to get from Shelf to Bradford?

Can you travel to Woodside on the 07:43 bus from Halifax?

Which journey takes the longest time between Shelf Village and Bradford?

If you needed to travel from Halifax to Odsal and had to arrive by 08:20, which would be the best bus to catch? Explain your answer.

Which bus takes the longest time from Halifax to Bradford?

Use the timetable to answer the questions.

	Bus Timetable				
Halifax	06:05	06:35	07:10	07:43	08:15
Shelf	06:15	06:45		07:59	08:31
Shelf Village	06:16	06:46	07:23	08:00	08:32
Woodside	06:21	06:50	07:28		
Odsal	06:26	06:55	07:33	08:15	08:45
Bradford	06:40	07:10	07:48	08:30	09:00

On the 06:35 bus, how long does it take to get from Shelf to Bradford?

Can you travel to Woodside on the 07:43 bus from Halifax?

Which journey takes the longest time between Shelf Village and Bradford?

If you needed to travel from Halifax to Odsal and had to arrive by 08:20, which would be the best bus to catch? Explain your answer.

Which bus takes the longest time from Halifax to Bradford?

ANSWERS

25mins

No

8:00

7:43. It will get you there at 8:15
7:43

This table shows the opening times of a pet clinic.

  Pet Clinic  	
Monday	10am to 4:30pm
Tuesday	10am to 4:30pm
Wednesday	Closed all day
Thursday	10:30am to 2:30pm
Friday	1pm to 6:30pm
Saturday	10am to 5:30pm
Sunday	Closed all day

How many hours is the clinic open on Thursday?

hours

On which day is the clinic open for the longest time?

Liam takes his dog to the clinic on Saturday.

He arrives at 9:25am.

How many minutes is it before the clinic opens?

minutes

Question One

Let's look at the times on Thursday.
We can sort this one by counting on from 10:30 in hour jumps.

Question Two

Do we need to find the times open for each day, or is there an easier way?
Monday and Tuesday are the same.
Thursday opens later and closes sooner.
Friday and Saturday look suspicious.

Question Three

We need to look at the time the clinic opens on Saturday.

This table shows the opening times of a pet clinic.

  Pet Clinic  	
Monday	10am to 4:30pm
Tuesday	10am to 4:30pm
Wednesday	Closed all day
Thursday	10:30am to 2:30pm
Friday	1pm to 6:30pm
Saturday	10am to 5:30pm
Sunday	Closed all day

How many hours is the clinic open on Thursday?

On which day is the clinic open for the longest time?

Liam takes his dog to the clinic on Saturday.

He arrives at 9:25am.

How many minutes is it before the clinic opens?

1) 10:30 – 11:30 – 12:30 – 1:30 – 2:30
4 hours

2) Friday 5 ½ hours
Saturday 7 ½ hours

3) 9:25 plus 5 minutes = 9:30 plus
30 minutes makes 10:00 so
35 minutes

Independent work

Thursday 22nd October 2020 Core

LO: complete, read and interpret information in tables, including timetables

This is the train timetable from Leeds to London.

Leeds	12:15	12:45	13:15	13:45	14:15
Wakefield	12:28	12:58	13:28	13:58	14:28
Doncaster	12:47	13:19	13:47	14:19	14:47
Grantham	13:18	—	14:18	—	15:18
Peterborough	—	14:10	—	15:10	—
Stevenage	14:04	—	15:04	—	16:04
London	14:31	15:01	15:31	16:01	16:31

a) What time does the 12:45 from Leeds arrive in London?

b) How long does the 13:58 train from Wakefield take to get to London?

c) At which stations does the 14:15 train stop?

d) How long does it take to get from Grantham to Stevenage?

e) If you arrive in Grantham at 13:30, how long will you need to wait before the next train to London?

Thursday 22nd October 2020 Depth

LO: complete, read and interpret information in tables, including timetables

These are the radio programmes one morning.

7.00	Music show
7.55	Weather report
8.00	News
8.15	Travel news
8.25	Sport
8.45	Holiday programme

Josh turns the radio on at 7.25am.

How many minutes does he have to wait for the Weather report?

 minutes

The Holiday programme lasts for 40 minutes.

At what time does the Holiday programme finish?

 am

Here is the calendar for August 1998.

August 1998						
Sun	Mon	Tues	Wed	Thur	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

Simon's birthday is on **August 20th**.

In 1998 he had a party on the **Sunday** after his birthday.

What was the **date** of his party?

Tina's birthday is on **September 9th**.

On what **day of the week** was her birthday in 1998?

22/10/20

Greater Depth

LO: complete, read and interpret information in tables, including timetables



Car Park charges	
Time	Charge
up to 1 hour	20p
1 to 2 hours	50p
2 to 3 hours	£1.00
3 to 4 hours	£1.70
over 4 hours	£5.00

Emma parks her car at 9.30 am.

She collects the car at 1.20 pm.

How much does she pay?

Dan and Mark both use the car park.

Dan says,

'I paid exactly twice as much as Mark but I only stayed 10 minutes longer'.

Explain how Dan could be correct.

Here is a local bus timetable.

High Street	09:15	09:35	09:55	10:15
Library	09:30	09:50	10:10	10:30
Willow Park	09:47	10:07	10:27	10:47
Bank Road	10:05	10:25	10:45	11:05
Shop-A-Lot Centre	10:20	10:40	11:00	11:20

a) Dexter misses the 09:15 bus by 3 minutes.

He needs to be at Bank Road by 10:30

Is he still able to make it? _____

Explain your answer.

ANSWERS

Thursday 22nd October 2020 Core
LO: complete, read and interpret information in tables, including timetables

This is the train timetable from Leeds to London.

	Leeds	Wakefield	Doncaster	Grantham	Peterborough	Stevenage	London
12:15	12:45	13:15	13:45	14:15			
12:28	12:58	13:28	13:58	14:28			
12:47	13:19	13:47	14:19	14:47			
13:18	—	14:18	—	15:18			
14:04	—	15:04	—	16:04			
14:31	15:01	15:31	16:01	16:31			

a) What time does the 12:45 from Leeds arrive in London?

15:01

b) How long does the 13:58 train from Wakefield take to get to London?

2hrs 3 mins

c) At which stations does the 14:15 train stop?

Wakefield, Doncaster,
Grantham, Stenage, London

d) How long does it take to get from Grantham to Stevenage?

46mins

e) If you arrive in Grantham at 13:30, how long will you need to wait before the next train to London?

48mins

Thursday 22nd October 2020 Depth
LO: complete, read and interpret information in tables, including timetables

These are the radio programmes one morning.

7.00	Music show
7.55	Weather report
8.00	News
8.15	Travel news
8.25	Sport
8.45	Holiday programme

Josh turns the radio on at 7:25am.

How many minutes does he have to wait for the Weather report?

30 minutes

The Holiday programme lasts for 40 minutes.

At what time does the Holiday programme finish?

9:25 am

Here is the calendar for August 1998.

August 1998						
Sun	Mon	Tues	Wed	Thur	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

Simon's birthday is on August 20th.

In 1998 he had a party on the Sunday after his birthday.

What was the date of his party?

23rd

Tina's birthday is on September 9th.

Wednesday

On what day of the week was her birthday in 1998?

22/10/20 Greater Depth
LO: complete, read and interpret information in tables, including timetables



Car Park charges	
Time	Charge
up to 1 hour	20p
1 to 2 hours	50p
2 to 3 hours	£1.00
3 to 4 hours	£1.70
over 4 hours	£5.00

Emma parks her car at 9:30 am.

She collects the car at 1:20 pm.

How much does she pay?

£1.70

Dan and Mark both use the car park.

Dan says,

'I paid exactly twice as much as Mark but I only stayed 10 minutes longer'.

Explain how Dan could be correct.

Mark stayed 1hr 55mins = 50p
Dan 2hrs 5 mins = £1

Here is a local bus timetable.

	High Street	Library	Willow Park	Bank Road	Shop-A-Lot Centre
09:15	09:35	09:55	10:15		
09:30	09:50	10:10	10:30		
09:47	10:07	10:27	10:47		
10:05	10:25	10:45	11:05		
10:20	10:40	11:00	11:20		

a) Dexter misses the 09:15 bus by 3 minutes.

He needs to be at Bank Road by 10:30

Is he still able to make it?

Explain your answer.

Yes - the next bus comes 17 mins later and gets to Bank Rd at 10:25.

Challenge

How many hours and minutes do we have of the following subjects in week 2?

Reading

Maths

Writing

Arithmetic

Topic/Science

PSHE

RE

Make up some questions using the data on the timetable such as -
How much more time is spent on Maths than Topic?

YEAR 5 - Timetable – Week 2

	8.40-9.00	09:00-09:20am	9:20-9:40m	9:40-10.40	10:40-10:55	10:55-11:35	11:35-12:45		12:45 – 1:45	1:45-2:55pm (1hr 10 mins)		2:55-3:10pm	3.10-3.25			
M	8:40 Pupils come into school Rfp 1:1 with TA's Registration and morning boards	Well Being - Recovery	Arithmetic	Maths Subtract whole numbers with more than 4 digits	BREAK	Reading 22-23	Writing Descriptive writing		CLASS NOVEL	LUNCH	Topic/Science		2:55-3.10pm Collective Worship	Need to be ready for collection from 3:10 Collection 3:25pm		
T P.E.		Well Being - Recovery	Arithmetic	Maths Round to estimate		Reading	Writing Descriptive writing				PE					
W		Well Being - Recovery	Arithmetic	Maths Inverse ops +/-		Reading 26-27	Writing Descriptive writing				Topic/ Art or D&T					
Th		9-9:40am Reading 28-29	9:40-10:40am Writing Descriptive writing			10:55-11:15 Arithmetic		12:15-12:45 Topic			Topic				CLASS NOVEL	
F		9-9:40am Reading	9:40-10:40am Writing Descriptive writing			10:55-11:15 Arithmetic		11:15-12:15 Maths Multistep +/- prob's			12:15-12:45 Topic				CLASS NOVEL	PSHE
						10:55-11:15 Arithmetic	11:15-12:15 Maths Mini Assess'		Spelling Test. Diary Admin. H/work set							

Challenge Answers

How many hours and minutes do we have of the following subjects in week 2?

Reading 3hrs 20 mins

Maths 5hrs

Writing 5hrs

Arithmetic 1hr 40 mins

Topic/Science 3hrs 50 mins

PSHE 30 mins

RE 30 mins

Make up some questions using the data on the timetable such as -

How much more time is spent on Maths than Topic?

1hr 10 mins

YEAR 5 - Timetable – Week 2																
	8.40-9.00	09:00-09:20am	9:20-9:40m	9:40-10.40	10:40-10:55	10:55-11:35	11:35-12:45		12:45 – 1:45	1:45-2:55pm (1hr 10 mins)		2:55-3:10p m	3.10-3.25			
M	8:40 Pupils come into school Rfp 1:1 with TA' s Registration and morning boards	Well Being - Recovery	Arithmetic	Maths Subtract whole numbers with more than 4 digits	BREAK	Reading 22-23	Writing Descriptive writing		CLASS NOVEL	LUNCH	Topic/Science		2:55-3.10pm Collective Worship	Need to be ready for collection from 3:10 Collection 3:25pm		
T P.E.		Well Being - Recovery	Arithmetic	Maths Round to estimate		Reading	Writing Descriptive writing				PE					
W		Well Being - Recovery	Arithmetic	Maths Inverse ops +/-		Reading 26-27	Writing Descriptive writing				Topic/ Art or D&T					
Th		9-9:40am Reading 28-29	9:40-10:40am Writing Descriptive writing			10:55-11:15 Arithmetic 11:15-12:15 Maths Multistep +/- prob's		12:15-12:45 Topic			Topic				CLASS NOVEL	
F		9-9:40am Reading	9:40-10:40am Writing Descriptive writing			10:55-11:15 Arithmetic 11:15-12:15 Maths Mini Assess'		Spelling Test. Diary Admin. H/work set			CLASS NOVEL				PSHE	R.E

Review

Which questions did we find the hardest?

Were there any that we could not see how to work out, or understand why we got them wrong?

Let's go back and look at them together.

Friday 23rd October
2020

Arithmetic

Name: _____

Week 1 Session 5
2020-21
3s 4s and 8s
5 a week

Times Tables Rock Stars

3 Times Tables

Licensed to Thornton Primary School, Birmingham

1	$3 \times 12 =$	21	$3 \times 4 =$	41	$21 \div 3 =$
2	$3 \times 4 =$	22	$3 \times 2 =$	42	$18 \div 3 =$
3	$3 \times 8 =$	23	$3 \times 2 =$	43	$33 \div 3 =$
4	$3 \times 6 =$	24	$3 \times 5 =$	44	$21 \div 3 =$
5	$3 \times 4 =$	25	$3 \times 11 =$	45	$21 \div 3 =$
6	$3 \times 12 =$	26	$3 \times 3 =$	46	$21 \div 3 =$
7	$3 \times 3 =$	27	$3 \times 7 =$	47	$3 \div 3 =$
8	$3 \times 12 =$	28	$3 \times 4 =$	48	$9 \div 3 =$
9	$3 \times 5 =$	29	$3 \times 2 =$	49	$6 \div 3 =$
10	$3 \times 4 =$	30	$3 \times 6 =$	50	$30 \div 3 =$
11	$3 \times 7 =$	31	$33 \div 3 =$	51	$30 \div 3 =$
12	$3 \times 8 =$	32	$27 \div 3 =$	52	$33 \div 3 =$
13	$3 \times 8 =$	33	$21 \div 3 =$	53	$21 \div 3 =$
14	$3 \times 2 =$	34	$3 \div 3 =$	54	$9 \div 3 =$
15	$3 \times 12 =$	35	$30 \div 3 =$	55	$6 \div 3 =$
16	$3 \times 3 =$	36	$30 \div 3 =$	56	$15 \div 3 =$
17	$3 \times 4 =$	37	$24 \div 3 =$	57	$3 \div 3 =$
18	$3 \times 2 =$	38	$33 \div 3 =$	58	$18 \div 3 =$
19	$3 \times 1 =$	39	$18 \div 3 =$	59	$15 \div 3 =$
20	$3 \times 7 =$	40	$36 \div 3 =$	60	$3 \div 3 =$

Time taken

 :
 ⌚ 3 minute time limit ⌚

Score

 60

Add up your time

Mins
S1 _____
S2 _____
S3 _____
S4 _____
S5 _____
Total _____

Secs

S1 _____
S2 _____
S3 _____
S4 _____
S5 _____
Total _____

Add up your score

S1 _____
S2 _____
S3 _____
S4 _____
S5 _____
Total _____

Name: _____

Week 5 Session 5
2020-21
3s 4s and 8s
5 a week

Times Tables Rock Stars

8 Times Tables

Licensed to Thornton Primary School, Birmingham

1	$8 \times 12 =$	21	$8 \times 4 =$	41	$16 \div 8 =$
2	$8 \times 5 =$	22	$8 \times 3 =$	42	$16 \div 8 =$
3	$8 \times 6 =$	23	$8 \times 12 =$	43	$16 \div 8 =$
4	$8 \times 5 =$	24	$8 \times 12 =$	44	$8 \div 8 =$
5	$8 \times 10 =$	25	$8 \times 4 =$	45	$56 \div 8 =$
6	$8 \times 7 =$	26	$8 \times 9 =$	46	$32 \div 8 =$
7	$8 \times 6 =$	27	$8 \times 7 =$	47	$96 \div 8 =$
8	$8 \times 3 =$	28	$8 \times 6 =$	48	$16 \div 8 =$
9	$8 \times 7 =$	29	$8 \times 11 =$	49	$56 \div 8 =$
10	$8 \times 1 =$	30	$8 \times 11 =$	50	$80 \div 8 =$
11	$8 \times 2 =$	31	$88 \div 8 =$	51	$80 \div 8 =$
12	$8 \times 2 =$	32	$96 \div 8 =$	52	$88 \div 8 =$
13	$8 \times 6 =$	33	$24 \div 8 =$	53	$8 \div 8 =$
14	$8 \times 7 =$	34	$16 \div 8 =$	54	$24 \div 8 =$
15	$8 \times 8 =$	35	$80 \div 8 =$	55	$96 \div 8 =$
16	$8 \times 11 =$	36	$40 \div 8 =$	56	$88 \div 8 =$
17	$8 \times 10 =$	37	$56 \div 8 =$	57	$40 \div 8 =$
18	$8 \times 2 =$	38	$72 \div 8 =$	58	$56 \div 8 =$
19	$8 \times 1 =$	39	$16 \div 8 =$	59	$72 \div 8 =$
20	$8 \times 12 =$	40	$48 \div 8 =$	60	$8 \div 8 =$

Time taken

 :
 ⌚ 3 minute time limit ⌚

Score

 60

Add up your time

Mins
S1 _____
S2 _____
S3 _____
S4 _____
S5 _____
Total _____

Secs

S1 _____
S2 _____
S3 _____
S4 _____
S5 _____
Total _____

Add up your score

S1 _____
S2 _____
S3 _____
S4 _____
S5 _____
Total _____

ANSWERS

Name: _____

3

Times Tables Rock Stars		Times Tables			
Licensed to Thornton Primary School, Birmingham					
1	$3 \times 12 = 36$	21	$3 \times 4 = 12$	41	$21 \div 3 = 7$
2	$3 \times 4 = 12$	22	$3 \times 2 = 6$	42	$18 \div 3 = 6$
3	$3 \times 8 = 24$	23	$3 \times 2 = 6$	43	$33 \div 3 = 11$
4	$3 \times 6 = 18$	24	$3 \times 5 = 15$	44	$21 \div 3 = 7$
5	$3 \times 4 = 12$	25	$3 \times 11 = 33$	45	$21 \div 3 = 7$
6	$3 \times 12 = 36$	26	$3 \times 3 = 9$	46	$21 \div 3 = 7$
7	$3 \times 3 = 9$	27	$3 \times 7 = 21$	47	$3 \div 3 = 1$
8	$3 \times 12 = 36$	28	$3 \times 4 = 12$	48	$9 \div 3 = 3$
9	$3 \times 5 = 15$	29	$3 \times 2 = 6$	49	$6 \div 3 = 2$
10	$3 \times 4 = 12$	30	$3 \times 6 = 18$	50	$30 \div 3 = 10$
11	$3 \times 7 = 21$	31	$33 \div 3 = 11$	51	$30 \div 3 = 10$
12	$3 \times 8 = 24$	32	$27 \div 3 = 9$	52	$33 \div 3 = 11$
13	$3 \times 8 = 24$	33	$21 \div 3 = 7$	53	$21 \div 3 = 7$
14	$3 \times 2 = 6$	34	$3 \div 3 = 1$	54	$9 \div 3 = 3$
15	$3 \times 12 = 36$	35	$30 \div 3 = 10$	55	$6 \div 3 = 2$
16	$3 \times 3 = 9$	36	$30 \div 3 = 10$	56	$15 \div 3 = 5$
17	$3 \times 4 = 12$	37	$24 \div 3 = 8$	57	$3 \div 3 = 1$
18	$3 \times 2 = 6$	38	$33 \div 3 = 11$	58	$18 \div 3 = 6$
19	$3 \times 1 = 3$	39	$18 \div 3 = 6$	59	$15 \div 3 = 5$
20	$3 \times 7 = 21$	40	$36 \div 3 = 12$	60	$3 \div 3 = 1$

Name: _____

Times Tables Rock Stars		8 Times Tables			
Licensed to Thornton Primary School, Birmingham					
1	8 × 12 = 96	21	8 × 4 = 32	41	16 ÷ 8 = 2
2	8 × 5 = 40	22	8 × 3 = 24	42	16 ÷ 8 = 2
3	8 × 6 = 48	23	8 × 12 = 96	43	16 ÷ 8 = 2
4	8 × 5 = 40	24	8 × 12 = 96	44	8 ÷ 8 = 1
5	8 × 10 = 80	25	8 × 4 = 32	45	56 ÷ 8 = 7
6	8 × 7 = 56	26	8 × 9 = 72	46	32 ÷ 8 = 4
7	8 × 6 = 48	27	8 × 7 = 56	47	96 ÷ 8 = 12
8	8 × 3 = 24	28	8 × 6 = 48	48	16 ÷ 8 = 2
9	8 × 7 = 56	29	8 × 11 = 88	49	56 ÷ 8 = 7
10	8 × 1 = 8	30	8 × 11 = 88	50	80 ÷ 8 = 10
11	8 × 2 = 16	31	88 ÷ 8 = 11	51	80 ÷ 8 = 10
12	8 × 2 = 16	32	96 ÷ 8 = 12	52	88 ÷ 8 = 11
13	8 × 6 = 48	33	24 ÷ 8 = 3	53	8 ÷ 8 = 1
14	8 × 7 = 56	34	16 ÷ 8 = 2	54	24 ÷ 8 = 3
15	8 × 8 = 64	35	80 ÷ 8 = 10	55	96 ÷ 8 = 12
16	8 × 11 = 88	36	40 ÷ 8 = 5	56	88 ÷ 8 = 11
17	8 × 10 = 80	37	56 ÷ 8 = 7	57	40 ÷ 8 = 5
18	8 × 2 = 16	38	72 ÷ 8 = 9	58	56 ÷ 8 = 7
19	8 × 1 = 8	39	16 ÷ 8 = 2	59	72 ÷ 8 = 9
20	8 × 12 = 96	40	48 ÷ 8 = 6	60	8 ÷ 8 = 1

Week 5 Session 5

2020-21

3s 4s and 8s

5 a week

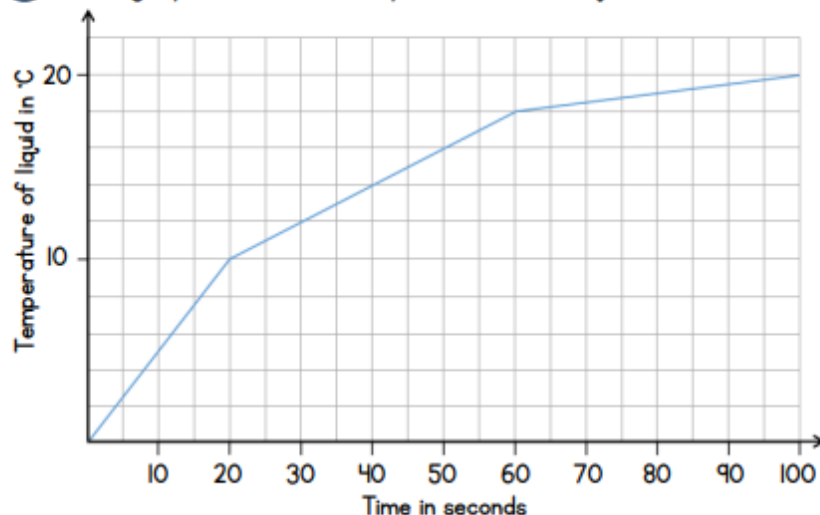
Independent work

Year 5

Statistics

Name _____

1 The graph shows the temperature of a liquid as it is heated.



How long does it take the liquid to reach 10°C?

_____ seconds

1 mark

What is the temperature of the liquid after it is heated for 50 seconds?

_____ °C

1 mark

How many degrees has the temperature increased by between 40 seconds and 80 seconds?

_____ °C

1 mark

Another liquid is heated for 100 seconds.

- The temperature of the liquid at the start was 5°C
- After 40 seconds the temperature is 10°C
- It takes the liquid 50 seconds to increase by another 5°C
- After 100 seconds the temperature is 20°C

Draw a line to show this information on the graph.

3 marks

2 The table shows the distance (in km) between places in the UK.

	Bath	Dover	Ely	Leeds	Perth
Bath	-	307	260	350	690
Dover	307	-	220	270	832
Ely	260	220	-	240	640
Leeds	350	270	240	-	430
Perth	690	832	640	430	-

What is the distance between Ely and Leeds?

_____ km

1 mark

Which place in the table is 690 km from Bath?

1 mark

On Monday Mike drives from Dover to Leeds.

On Tuesday he drives from Leeds to Perth.

How many kilometres does he drive altogether?

_____ km

2 marks

- 3 The table shows the start times for films at a cinema.

Bubble Mania	Mission Boy	Magic Island	Wand King
12:10	11:30	12:30	12:10
13:40	12:45	14:00	13:20
15:10	14:00	15:30	14:40
16:40	15:15	17:30	16:00

Which film starts in the morning?

1 mark

Which film starts at 5:30pm?

1 mark

Jack arrives at the cinema at 2:20pm.

He wants to watch Wand King.

How long does he have to wait?

1 mark

Bubble Mania lasts 100 minutes.

What time does the 15:10 film finish?

2 marks

- 4 The table shows the information about 130 sandwiches that were sold in a shop.

	Brown bread	White bread	Total
Egg	13	26	39
Tuna		18	44
Cheese	22		
Total		69	130

How many more egg sandwiches were sold on white bread than brown?

1 mark

How many tuna sandwiches on brown bread were sold?

2 marks

Complete the missing values in the table.

2 marks

Circle how confident you feel with statistics.

1

2

3

4

5

Not
confident

Very
confident

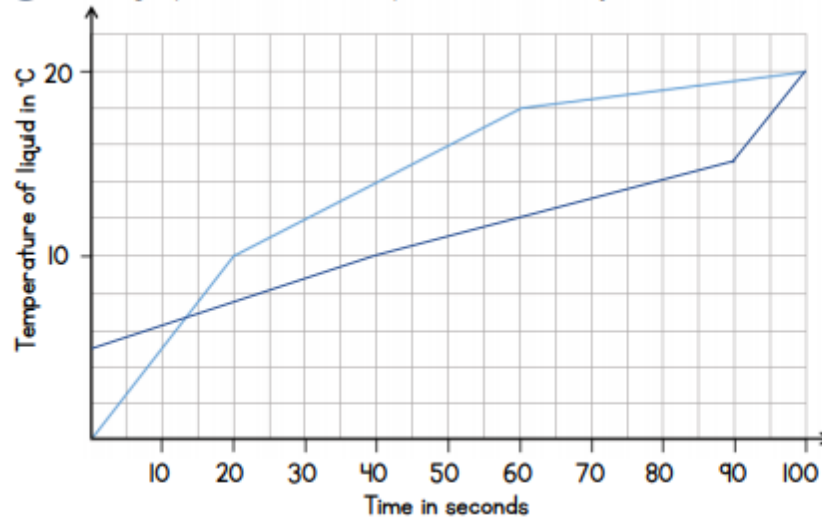
Answers

Year 5

Statistics

Answers

1 The graph shows the temperature of a liquid as it is heated.



How long does it take the liquid to reach 10°C?

20 seconds

What is the temperature of the liquid after it is heated for 50 seconds?

16 °C

How many degrees has the temperature increased by between 40 seconds and 80 seconds?

5 °C

Another liquid is heated for 100 seconds.

- The temperature of the liquid at the start was 5°C
- After 40 seconds the temperature is 10°C
- It takes the liquid 50 seconds to increase by another 5°C
- After 100 seconds the temperature is 20°C

Draw a line to show this information on the graph.

2 The table shows the distance (in km) between places in the UK.

	Bath	Dover	Ely	Leeds	Perth
Bath	-	307	260	350	690
Dover	307	-	220	270	832
Ely	260	220	-	240	640
Leeds	350	270	240	-	430
Perth	690	832	640	430	-

What is the distance between Ely and Leeds?

240 km

Which place in the table is 690 km from Bath?

Perth

On Monday Mike drives from Dover to Leeds.

On Tuesday he drives from Leeds to Perth.

How many kilometres does he drive altogether?

Award 1 mark for showing the proper distances (270 and 430) and using addition.

700 km

- 3 The table shows the start times for films at a cinema.

Bubble Mania	Mission Boy	Magic Island	Wand King
12:10	11:30	12:30	12:10
13:40	12:45	14:00	13:20
15:10	14:00	15:30	14:40
16:40	15:15	17:30	16:00

Which film starts in the morning?

Mission Boy

Which film starts at 5:30pm?

Magic Island

Jack arrives at the cinema at 2:20pm.

He wants to watch Wand King.

How long does he have to wait?

20 minutes

Bubble Mania lasts 100 minutes.

What time does the 15:10 film finish?

16:50 or 4:50pm

- 4 The table shows the information about 130 sandwiches that were sold in a shop.

	Brown bread	White bread	Total
Egg	13	26	39
Tuna	26	18	44
Cheese	22	25	47
Total	61	69	130

How many more egg sandwiches were sold on white bread than brown?

13

How many tuna sandwiches on brown bread were sold?

26

Complete the missing values in the table.

Award 1 mark for 2 correct answers.

Circle how confident you feel with statistics.

1

2

3

4

5

Not
confident

Very
confident

Review

- Which areas did we find hardest?
- Where do we need to do some extra practise?
- Which work was the most fun?
- Which work are you proudest of?