Daily Maths Activities Week beginning 4th May
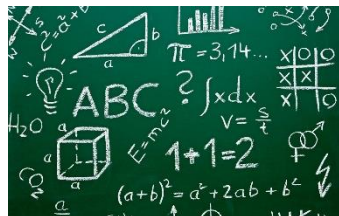
Woodloes
Primary School

There is a suggested maths task for each day (they are all linked to the Year 5 curriculum), but remember that if you need a reminder of any of the maths covered in the activities, you can explore the topic on Bitesize instead.

If you would like extra maths each day, access the daily Year 5 Bitesize Maths activities on:

https://www.bbc.co.uk/bitesize/dailylessons

Remember that there are weekly maths activity on 'Maths with Parent' too.
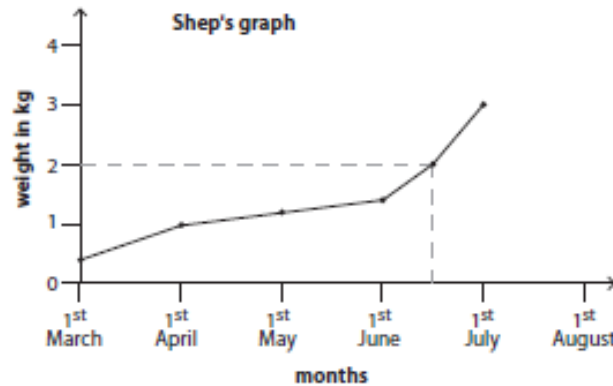
Monday 4th May

Woodloes
Primary School

Maths task
WALT: Solve problems using information presented in graphs

1 Shep, the puppy, was born on the 1st March.
He was weighed on the 1st March, 1st May, 1st June, 1st July and 1st August.
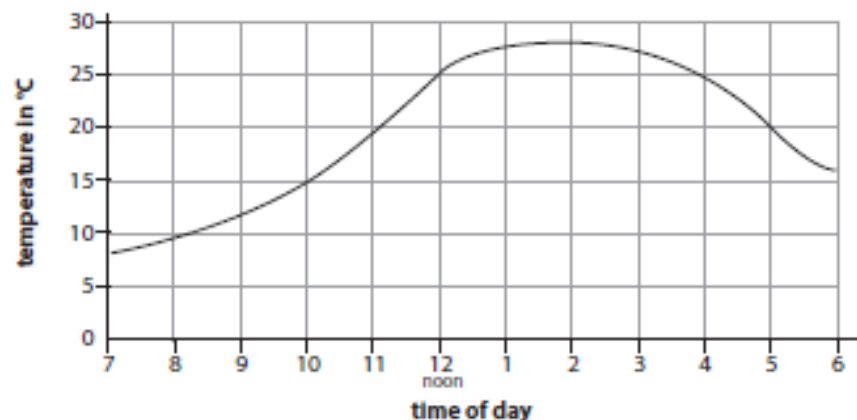The graph below shows his weight.

Shep's graph

weight in kg

months

1st March   1st April   1st May   1st June   1st July   1st August

a Estimate Shep's weight at birth. ☐ kg

----

b On the 1st August, Shep's weight was **3·5 kg**. Complete the line graph to show this information.

----

c Estimate how much Shep's weight increased from the 1st April to the 1st July. ☐ kg

----

d Estimate how many grams Shep's weight increased from the 1st May to the 1st June. ☐ g

----

e Is the statement below correct? ☐

The graph shows that Shep weighed exactly **2 kg** on the 15th June. Explain your answer.

....

....

2 The graph shows the temperature on the 12th August.

time of day

a Estimate the temperature at **2 pm**. [ ] °C

b At what time does the temperature reach **15°C**? [ ]

c For how many hours is the temperature **25°C** or above? [ ]

d Estimate the temperature difference between the coolest and hottest part of the day, as shown on the graph. [ ] °C

e Draw a second line on the graph above, which shows the temperatures for the 17th August.

temperature on the 17th August

time	07:00	09:00	11:00	13:00	15:00	17:00
temperature in °C	6	11	17	25	25	19

f What do you think the difference in temperature is at **4 pm** on the 12th August and at **4 pm** on the 17th August? [ ] °C

3 Look at the graphs below, which show Amir's travels by car and Aaron's by bike.

Amir's car travel

distance (miles)

250, 200, 150, 100, 50, 0

time: 6am 7am 8am 9am 10am 11am

Aaron's bike travel

distance (miles)

25, 20, 15, 10, 5, 0

time: 6am 7am 8am 9am 10am 11am

a How far had Amir travelled by **7 am**?

[ ] miles

b During the journey, Amir's car was stuck in traffic.
Between which times do you think this happened?

[ ] and [ ]

c Aaron was on quiet roads with no traffic. What do you think he was doing between
9 am and **10 am**? Explain your reasons.

……

……

d How many miles did Amir and Aaron travel between **6am**
and **11 am** altogether?

[ ] miles

e The graph shows that Amir's average speed was
40 miles per hour. What was Aaron's average speed?

[ ] miles per hour

f Amir continued until **12** midday and then stopped for lunch.

He completed **50 miles** between **11** and **12**.

Amir's car used approximately **6 litres** of petrol per **100 km**.

Approximately, how many **litres** of petrol would Amir's car
have used on his journey? (**1 mile** is apporximately **1·6 km**)

[ ] l

Maths task ANSWERS

1. a) 0-4 kg b) drawn correctly c) 2 kg d) range of 200 g e) not appropriate, e.g. no measure taken that date so dotted line is an estimate

2. a) 26, 27 or 28°C b) 10 am c) 4 d) 19–21°C e) line drawn correctly f) 2–4°C

3. a) 50 miles b) 8–9 am c) stopped, e.g. for breakfast because not many miles completed d) 225 miles e) 5 miles per hour f) 24 l
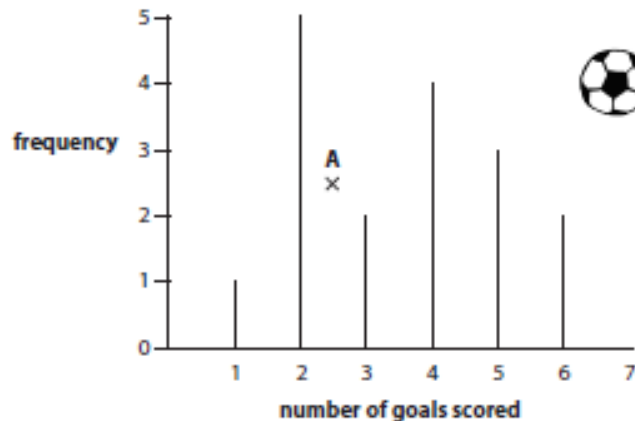
Tuesday 5th May

Woodloes
Primary School

Maths task
WALT: Solve problems using information given in bar charts

1

Goals scored by the netball team, during the season

a The team scored **7** goals in **3** games. Draw the line on the bar chart to show this information.

b In how many games were **2** goals scored? ☐

c In how many games were **3** or more goals scored? ☐

d How many games did the team play altogether, during the season? ☐

e Look at Point A on the chart.
Circle T (true) or F (false) by each of the following statements.

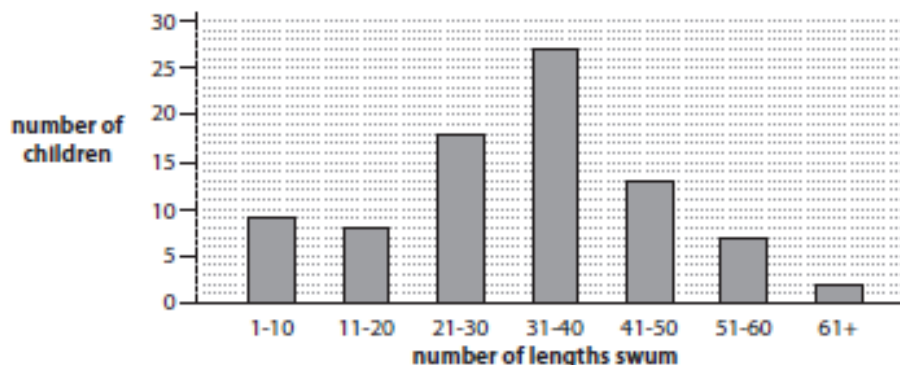Point **A** shows that **2.5** goals were scored in **2** games   T / F

Point **A** shows that **2** goals were scored in **2·5** games   T / F

Point A has no meaning   T / F

f Explain the meaning of the word 'frequency' when it is used on a bar chart.

2 The swimming club does a sponsored swim, which takes **1 hour.**
The graph shows their results.

number of children (y-axis)
number of lengths swum (x-axis)

a How many children swam more than **20** lengths? [ ]

b Which range of lengths did the highest number of children swim? [ ]

c How many children took part in the sponsored swim altogether? [ ]

d **17** children swam **31** lengths and **4** children swam **40** lengths. How many children swam more than **31** lengths, but fewer than **40** lengths? [ ]

e The swimming club has children who have just learnt to swim through to children who have won national competitions in distance swimming. Using the information in the graph, how many children do you think have won national competitions? Explain your answer. [ ]

....

f Jenna swam **55** lengths. Her dad noted down the number of lengths swum as shown.

time	number of lengths
1:10	12
1:20	23
1:30	$33\frac{1}{2}$
1:40	43
1:50	50
2:00	55

Choose the most appropriate graph or chart to represent this data and draw it.

Maths task ANSWERS

1. a) line drawn correctly b) 5 c) 14 d) 20
   e) F, F, T f) appropriate, e.g. number of times
   certain value occurs

2. a) 67 b) 31–40 c) 84 d) 6
   e) 2 appropriate explanation
   f) appropriate choice, e.g. line graph

If you want us to check your graph for 2f, send it to us via the VLE or the year group email.

Wednesday 6th May

Woodloes
Primary School

Maths task
WALT: Complete, read and interpret information presented in tables

1 The table below shows the scores of some friends in the game Zap Ball.

	Game 1	Game 2	Game 3	Game 4	Game 5	Total
Jon	7	7	6	10	7	
Meera	9	8	9	5		40
Eva	6	7	8	7	6	
Tariq	9	8	9	9	8	
William	7	6		8	9	38

a Complete the table by filling in the empty boxes.

b Who had the highest score for an individual game?

c Who had the lowest score for an individual game?

d What was Jon's mode score?

e Find the mean average score for each player.

Jon   Meera   Eva

Tariq   William

f Each game was out of **10**. Complete the table below.

	Eva Game 1	Tariq Game 5	William Overall
Percentage score	%	%	%

2. Some friends measured the distances between each other's houses, by taking the most direct route they could walk in **kilometres**. They made the table below.

	Lottie	Sian	Freya	Salim	Alfie
Salim					3·2
Freya				6·4	2·1
Sian			3		4·6
Lottie		4·8	2·7		1·6

This table shows that Alfie lives **4·6 km** away from Sian and Salim lives **6·4 km** away from Freya.

a How far does Alfie live from Freya? ☐ km

b Salim lives **3·8 km** from Sian and **4·2 km** from Lottie. Add that information to the table.

c Which **two** children live the furthest distance apart?

☐ and ☐

d Alfie walks to Lottie's house, then they both walk to Freya's house. How far does Alfie walk altogether? ☐ km

e It takes Freya about **12 minutes** to walk **1 kilometre**. Approximately, how long would it take her to walk to Sian's house? ☐ minutes

f Freya decided that she would walk to a different friend's house, and back to her house each day, over **4** days. How many **kilometres** did she walk in total? ☐ km

___

If you would like to, you can have a go at creating your own table to collect some of your chosen data in.

Maths task ANSWERS

1 a) Jon – 37, Meera – 9, Eva – 34, Tariq – 43, William 8 b) Jon c) Meera d) 7 e) Jon – 7·4, Meera – 8, Eva – 6·8, Tariq – 8·6, William – 7·6 f) 60%, 80%, 76%

2 a) 2·1 km b) added correctly c) Freya and Salim d) 4·3 km e) 36 minutes f) 28·4 km

If you created your own table and would like to share it with us, send it to us via the VLE or year group email.

Thursday 7th May

Maths task 1
WALT: Complete, read and interpret information presented in Carroll diagrams

	children who have a brother	children who do not have a brother
boys	Noah, Henry, Frankie, Ben	Lenny, Archie, Freddie
girls	Ellie, Sofia, Beth, Abbie, Emmie, Deri, Zainab	Mia, Lydia, Alys, Lizzy, Zara, Halima

❶ How many boys have a brother?

❷ Greg does not have a brother. Add this information to the diagram.

❸ How many more girls than boys do not have a brother?
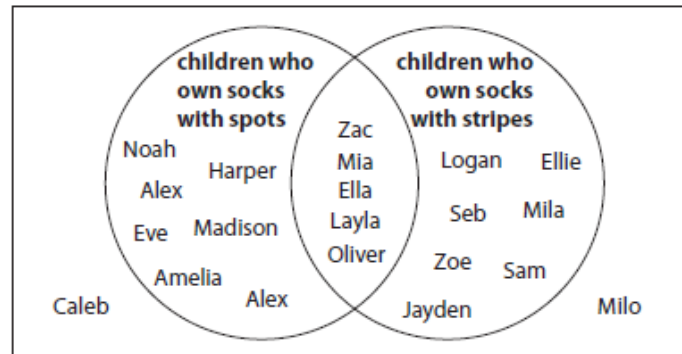
❹ Is this statement correct?

Most children in the survey have a brother.

❺ Freddie and Emmie are brother and sister. Their mother and father have another child. Place a cross (x) on the chart to represent this child.

❻ What proportion of those in the survey are girls with a brother?
Show your answer as a fraction in its lowest terms.
(Do not include the child from question 5, but do include Greg)

Maths task 2
WALT: Complete, read and interpret information presented in Venn diagrams

Venn diagram:

children who own socks with spots
Noah, Harper, Alex, Eve, Madison, Amelia, Alex

intersection
Zac, Mia, Ella, Layla, Oliver

children who own socks with stripes
Logan, Ellie, Seb, Mila, Zoe, Sam

Outside: Caleb, Jayden, Milo

❶ Hannah owns a pair of socks with spots, but not with stripes. Ash has both kinds of socks. Add this information to the diagram.

❷ How many children own socks with stripes? [ ]

❸ How many children own socks with spots but not stripes? [ ]

❹ What does Seb own? *Socks with* ....

❺ Explain Caleb's and Milo's position on the diagram.

....

❻ A sock-making company wants to find out what the overall most popular socks are for **8-year-old** girls, e.g. blue with spots, red with hearts, plain pink, etc. Would they find this Venn diagram useful? Explain your answer.

OPTIONAL EXTRA Maths task
WALT: Decide which representations of data are the most appropriate and why

For each of the following, decide how you would choose to show the information (e.g. bar chart, line graph, Venn diagram, Carroll diagram, table, etc.) and then explain your reasons.

1 The favourite sports for all the children in your class.

………………………………………………………………………………………

………………………………………………………………………………………

2 All the numbers up to **100**, so that you can identify whether each number is prime or composite <u>and</u> has the digit **3** in the number.

………………………………………………………………………………………

………………………………………………………………………………………

3 The shoe size for all the children in your class.

………………………………………………………………………………………

………………………………………………………………………………………

4 The temperature in a room during one day.

………………………………………………………………………………………

………………………………………………………………………………………

5 Your and **3** friends' scores in each of **5** maths tests.

………………………………………………………………………………………

………………………………………………………………………………………

Maths task ANSWERS

Maths task 1

1. 4
2. Greg in boys without brother
3. 2
4. Yes
5. × placed in 'girls who have a brother' box
6. $\frac{1}{3}$

Maths task 2

1. Hannah in left circle, Ash in centre
2. 13
3. 8
4. stripes
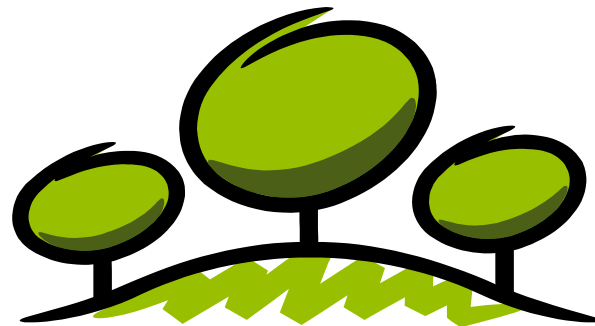5. don't own either
6. no: only shows 2 types

Optional task

These are just suggested answers:
1. Bar chart
2. Carroll diagram
3. Bar chart
4. Line graph
5. Table

Friday 8th May
There are no activities today as it is a Bank Holiday

Woodloes
Primary School

Have a lovely day with your family and a great weekend.