Wednesday 10th June

Dear Year 6,

We hope you and your families are keeping well and have had a good week.

Here are the activities for this week for you to follow and complete. We've attached the reading challenge to Monday's tasks, in case you didn't get the chance to start it last week. There are lots of books that you can read or listen to online for free. Two websites we would recommend are: https://readon.myon.co.uk/ https://stories.audible.com/start-listen

Try to read for at least 20 minutes a day and take Accelerated Reader quizzes from home by using this link Howley Grange Renaissance at home and logging on as usual using your username and password. To check that the book you are reading has a quiz, you can check it using on Accelerated Reader Bookfinder. It's okay to read books which haven't got a quiz – just keep a record of what you have read.

We've also included the Active June Challenge in Monday's activities, just in case you haven't started that yet!

As always, remember to take time to relax, exercise and be kind to yourselves and each other.

Take care and keep smiling,

Mrs Graham and Mrs North

English Activity 3 – Punctuation to show parenthesis

There are 3 activities to complete today. Remember to check your work for spellings and punctuation.

Now for some grammar

What are brackets good for?

Brackets (which always come in pairs) are used to separate off additional information that would interrupt the flow of a sentence or cause confusion if commas were used instead. The information in the brackets is not essential to the meaning of the original sentence.

Here are some examples:

1. The Rhiswanozebtah (a very strange creature) likes to live in rainforests.
2. The explorers (who have recently returned from

1. Complete the sentences below by adding in some additional information about Rhiswanozebtahs.

The skin of a Rhiswanozebtah is covered in feathers

(which are_____) and fur.

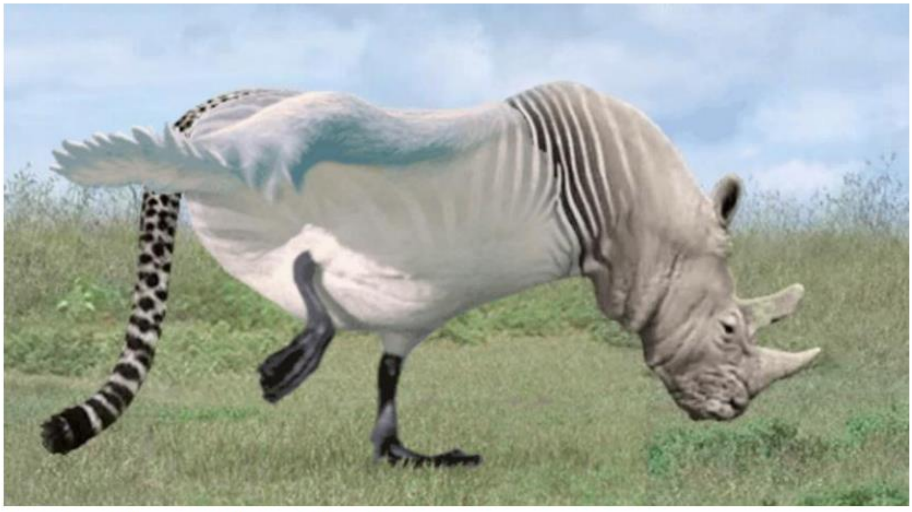
Rhiswanozebtahs live in different places (like

_____) and tend to live alone.

Many young Rhiswanozebtahs (aged_____) can travel

vast distances.

2. We can also use commas and dashes to show parenthesis (additional information). Now write 10 sentences of your own about Rhiswanozebtah which contain brackets, commas or dashes to demarcate the parenthesis. Make each sentence as interesting as possible by thinking of your word choice.



Credit: created using graphics from Switchzoo.com

3. Read the sentences below about a zebra duiker (yes it is a real animal!). Add the missing pairs of brackets, commas or dashes to each sentence.

The zebra duiker's light gold or reddish-brown body is strikingly marked from the shoulders to the rump with black or dark brown transverse stripes.

The striping pattern number of stripes, degree of tapering, and arrangement is unique to each individual.

The shoulders and lower legs are darker than the rest of the body, and blackish bands encircle the upper legs both front and rear.

The face which is an overall deep chestnut brown colour has no distinctive markings, but the muzzle is black and the lower jaw whitish.

The horns are short, smooth, sharp cones in both males 4-5 cm and females up to 2-3 cm.

The Zebra duiker is a herbivore plant-eating animal.

Zebra duiker are diurnal active during the day animals.

Maths Activity 3a – ten in ten ☺

You know the rule!

Ten minutes to answer ten questions ☺

1) 763 332 + 109 372 =
2) 1248 ÷ 12 =
3) 8^3 =
4) 12.4 – 7.28 =
5) 30% of 4100 =
6) 11.08 x 5 =
7) 457 x 1000 =
8) $\frac{1}{7} \div 10$ =
9) 55 ÷ (14 - 9) =
10) 15% of 1500 =

Challenge

11) How many seconds are there in 12 minutes?
12) How many hours are there in 8 days?
13) If n + 53 = 107, then n = ?
14) What is the total size of the internal angles in a quadrilateral?
15) $\frac{4}{9}$ of 4500 =

Maths Activity 3b – Consolidating pie charts

Today we are bringing together all of our learning from Monday and Tuesday to answer questions using Pie Charts.

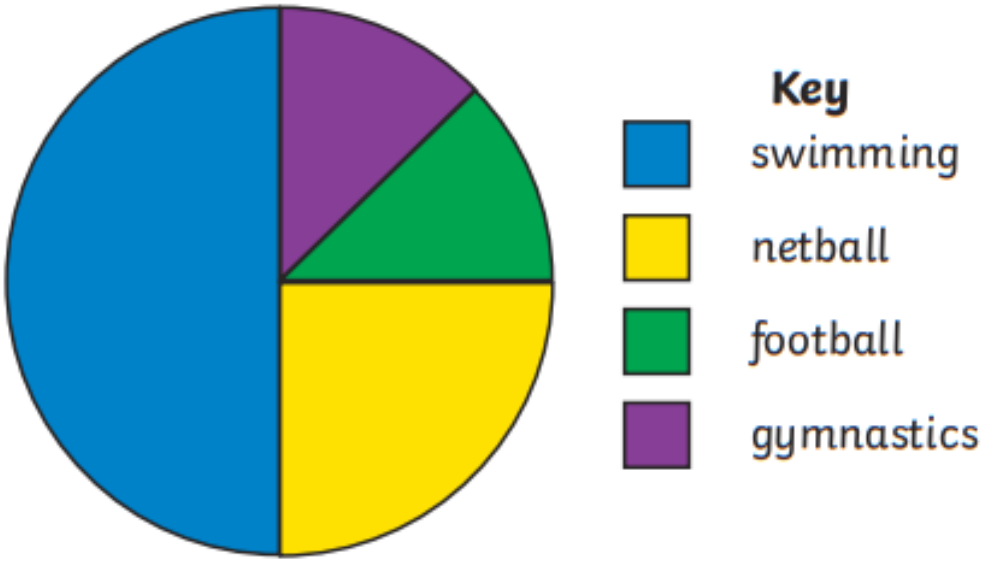
Look back at the work you have already completed to remind you. There are learning reminders on the next two pages too!

Pie Charts

Pie charts represent discrete data.

A circle is divided into segments, where each segment represents a data category. The size of each segment matches its proportion of the total amount.

A pie chart to show children's favourite sports



24 children were asked in total.

Swimming = $\frac{1}{2}$ so $\frac{1}{2}$ of 24 = 12 children

Netball = $\frac{1}{4}$ so $\frac{1}{4}$ of 24 = 6 children

Football = $\frac{1}{8}$ so $\frac{1}{8}$ of 24 = 3 children

Gymnastics = $\frac{1}{8}$ so $\frac{1}{8}$ of 24 = 3 children

Learning Reminder

Follow the steps to present each set of data on a pie chart.

1. **Add** to find the frequency total.
2. **Find** the **magic angle**: 360^0 ÷ total.
3. **Find the angle**: multiply each frequency by the magic angle.
4. **Draw the angle**: place the 'nought' of the first sector on the 'north-line'. Always move clockwise round the outside.
5. **Draw new angle**: turn the protractor round until the 'nought' is on this 'new' line. Repeat this.
6. **Label each sector.**

Example

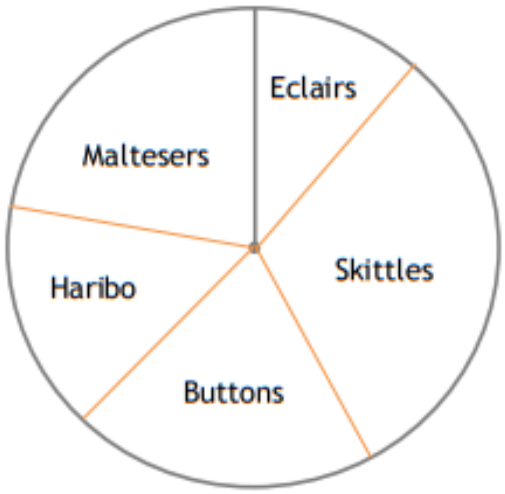
45 people were asked what sweets they liked to buy.

Flavour	Frequency	Angle
Eclairs	5	
Skittles	14	
Buttons	9	
Haribo	7	
Maltesers	10	
Total frequency	45	

➡

Flavour	Frequency	Angle
Eclairs	5 × 8	40
Skittles	14 × 8	112
Buttons	9 × 8	72
Haribo	7 × 8	56
Maltesers	10 × 8	80

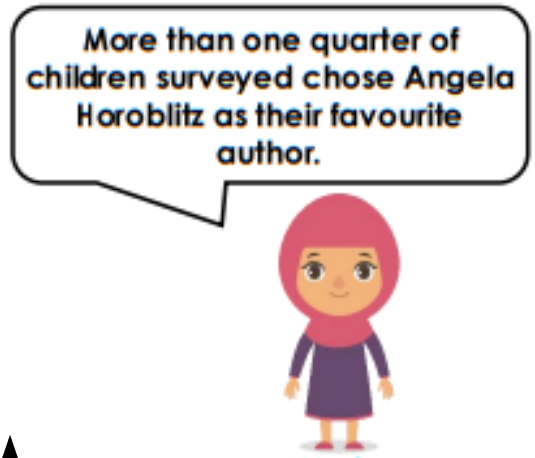
Magic angle: 360 ÷ 45 = 8

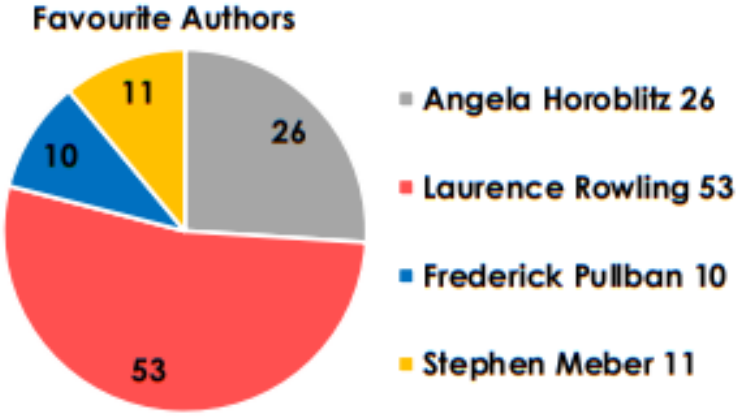


Maths Activity 3b*

Interpreting pie charts

1. Some pupils were asked to name their favourite children's author.

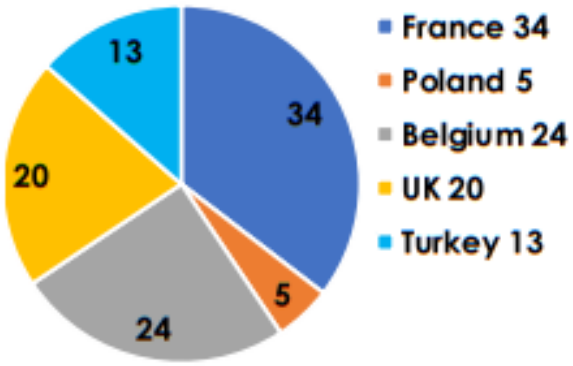


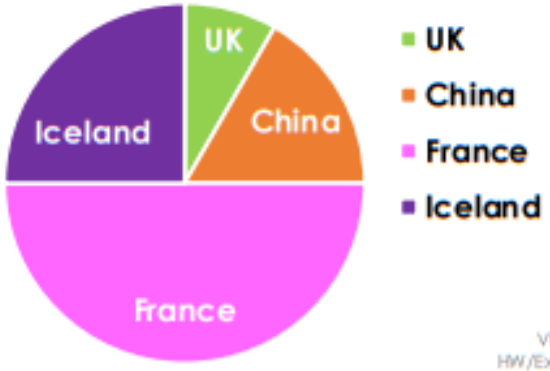


Is Maria correct?

VF
HW/Ext

2. The nationalities of employees at 2 companies are shown in the pie charts below. The same number of people were asked at both companies. How many French employees does Supreme Moments Ltd have?





VF
HW/Ext

3. Each person who attended a food festival in York was asked to choose their favourite Greek food. Fill in any missing labels and explain your reasoning.

Favourite Greek Food	Number of People
Feta Cheese	
Octopus	4
Moussaka	44
Fresh Fish	11
Grilled Meat	7
Total Number of People	

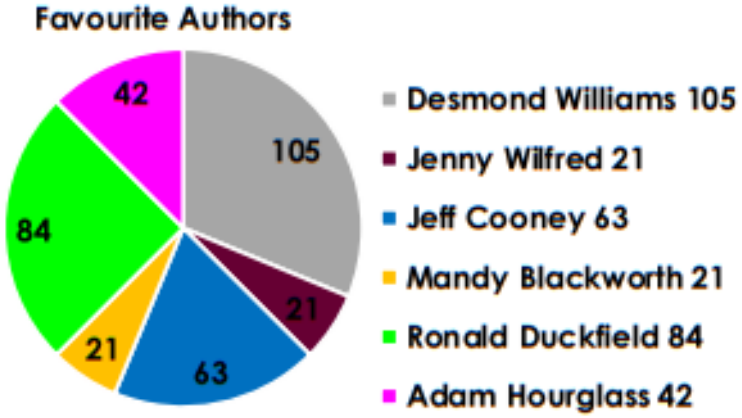
RPS
HW/Ext

Maths Activity 3b**

Interpreting pie charts

4. Some pupils were asked to name their favourite children's author.

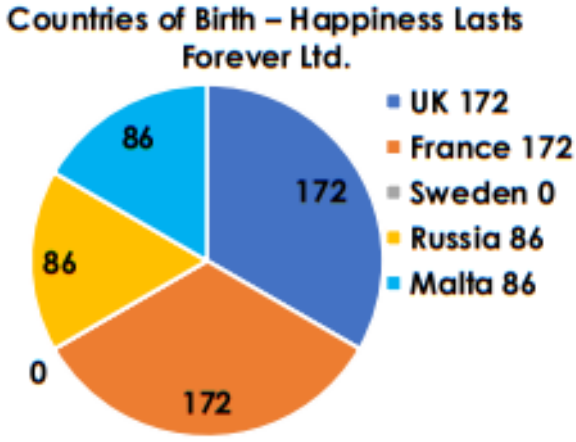
Astrid

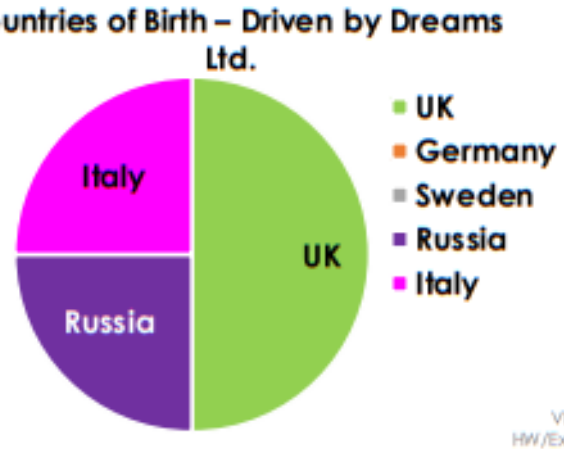


Is Astrid correct?

VF
HW/Ext

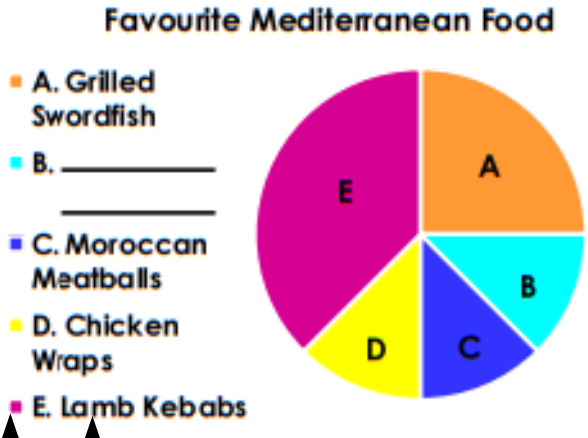
5. The nationalities of employees at 2 companies are shown in the pie charts below. The same number of people were asked at both companies. How many more Russians does Driven by Dreams Ltd employ?





VF
HW/Ext

6. Each person who attended a food festival in London was asked to choose their preferred Mediterranean food. Fill in any missing labels and explain your reasoning.



Favourite Mediterranean Food	Number of People
Grilled Swordfish	
Spanish Omelette	98
Moroccan Meatballs	98
Chicken Wraps	98
Lamb Kebabs	
	784

RPS
HW/Ext

Maths Activity 3b***

Interpreting pie charts

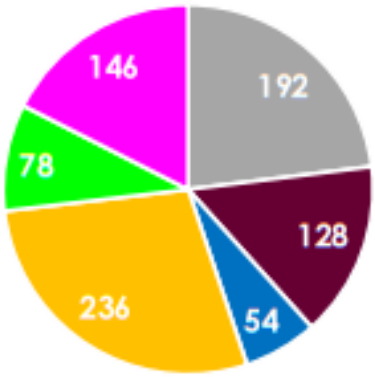
7. Some pupils were asked to name their favourite children's author.

$\frac{2}{6}$ of the children surveyed chose an author with only five letters in their first name.

Felix

Is Felix correct?

Favourite Authors

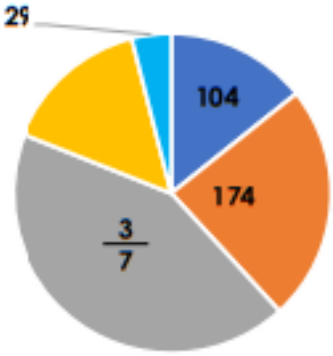


- Freddie Simond 192
- Michelle Mortugo 128
- Ethel Blymore 54
- Judy Donalson 236
- Louis Carrot 78
- Larry Chimney 146

VF HW/Ext

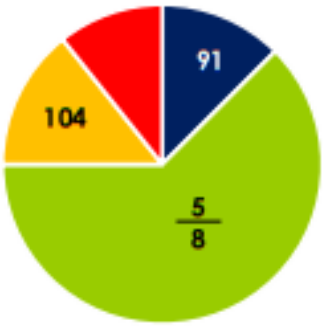
8. The nationalities of employees at 2 companies are shown in the pie charts below. 728 people were asked at both companies. Which company employs the most Japanese?

Banish Those Blues Ltd.



- Peru 104
- Sudan 174
- Togo $\frac{3}{7}$
- Japan
- Iran 29

Happy Workforce Ltd.

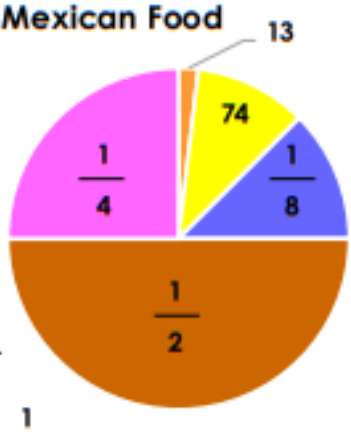


- Spain 91
- Poland $\frac{5}{8}$
- Oman 104
- Japan

VF HW/Ext

9. Each person who attended a food festival in Newcastle was asked to choose their preferred Mexican food. Fill in any missing labels and explain your reasoning.

Favourite Mexican Food



- Pork Burritos 13
- Prawn Soup 74
- Tortillas $\frac{1}{8}$
- Enchiladas $\frac{1}{2}$
- Chorizo Tacos $\frac{1}{4}$

Favourite Mexican food	Number of People
Pork Burritos	13
Prawn Soup	74
Tortillas	
Potato Enchiladas	
Chorizo Tacos	
Total Number of Attendees	

CLASSROOM Secrets

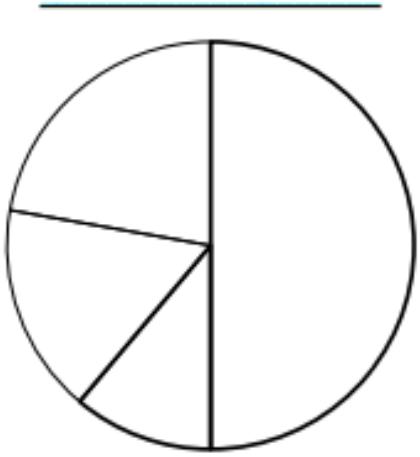
RPS HW/Ext

Maths Activity 3c*

Draw Pie Charts

1. A survey asked 360 pupils about their favourite pizza. Use this information to complete the table and label the pie chart.

Pizza	Number of Votes	Degrees
Margherita	180	°
Veggie	40	40°
Pepperoni		60°
Meat Feast	80	°

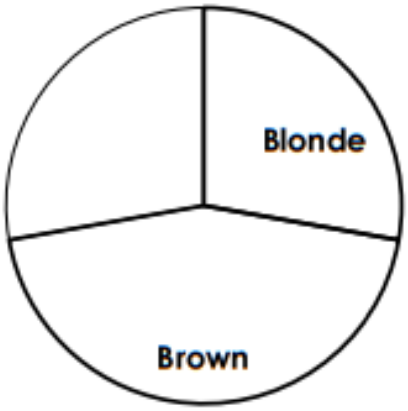


VF
HW/Ext

2. Complete the table and use a protractor to complete the pie chart using the information given.

Hair colour	Number of Votes	Degrees
Blonde	10	100°
Brown	16	°
Black	7	°
Ginger	3	°

HAIR COLOUR



VF
HW/Ext

3. Hannah says,

If there are 360 children who take part in a survey, each child will be worth 1° on a pie chart.

Is Hannah correct? Explain how you know.

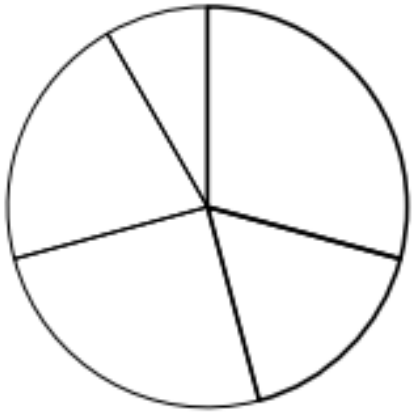
RPS
HW/Ext

Maths Activity 3c**

Draw Pie Charts

4. A survey asked 24 pupils about their favourite pastimes. Use this information to complete the table and label the pie chart.

Pastime	Number of Votes	Degrees
Football	7	°
Swimming	4	60°
Reading		90°
You Tubing	5	°
Baking		30°

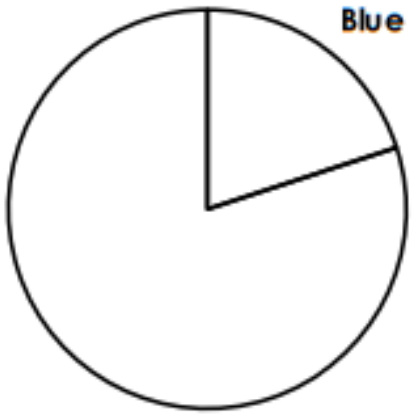


VF
HW/Ext

5. Complete the table and use a protractor to complete the pie chart using the information given.

Favourite Colour	Number of Votes	Degrees
Blue	%	°
Red	20%	°
Green	10%	°
Purple	30%	°
Yellow	10%	°
Orange	10%	°

FAVOURITE COLOURS



VF
HW/Ext

6. Jordan says,

If there are 18 children who take part in a survey, each child will be worth 20° on a pie chart.

Is Jordan correct? Explain how you know.

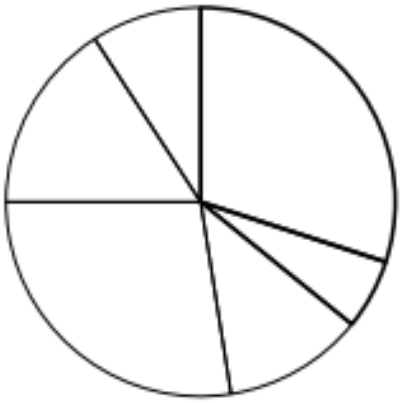
RPS
HW/Ext

Maths Activity 3c***

Draw Pie Charts

7. A survey asked 120 pupils about their favourite authors. Use this information to complete the table and label the pie chart.

Favourite Author	Number of Votes	Degrees
Rowing		108°
Horrorit	7	°
Deal		42°
Malliams	33	°
Wilsing	19	°
Morperso		33°

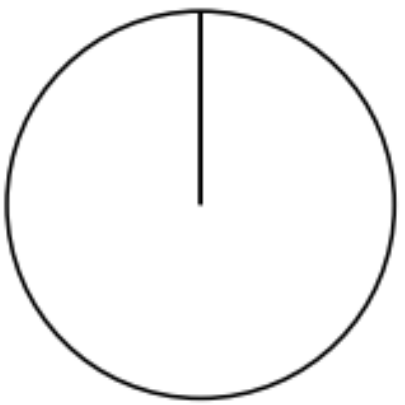


VF
HW/Ext

8. Complete the table and use a protractor to complete the pie chart using the information given.

Favourite Fruit	Number of Votes	Degrees
Mango		54°
Kiwi	5%	
Banana		36°
Grapes	25%	90°
Apple		
Orange	10%	

FAVOURITE FRUITS



VF
HW/Ext

9. William says,

To convert a set of data in to degrees you have to divide 360 by 100 and then multiply by the number of people for that category.

Is William correct? Explain how you know.

RPS
HW/Ext

Ice Cream Pie

An ice cream stall sells vanilla, strawberry and chocolate ice creams.

The pie chart illustrates the sales of ice cream today.

The number of vanilla and the number of chocolate ice creams sold were the same.

The stall sold 60 strawberry ice creams.

How many chocolate ice creams were sold?

PHSE/Art – Wassily Kandinsky

Wassily Kandinsky was
a Russian painter.
Many people think he was
the first abstract artist.

Abstract Painting
by Wassily Kandinsky

Wassily Kandinsky was born in Russia, in 1866. When he grew up, he worked as a teacher at a university but it didn't make him happy.

When he was 30, he left his job and went to art school. He found art school easy and was very good at his studies.

Kandinsky thought a lot about what colours mean and how they make people feel. He believed that colours had a soul.

Wassily Kandinsky

He was the first painter to stop painting pictures of things and instead paint just using colours and shapes. He believed that this let him paint honestly about his feelings.

Often Kandinsky would listen to music while he painted and try to paint what he heard.

All the other painters we have found out about learned a lot from Kandinsky's ideas.

Here is what his work looks like:

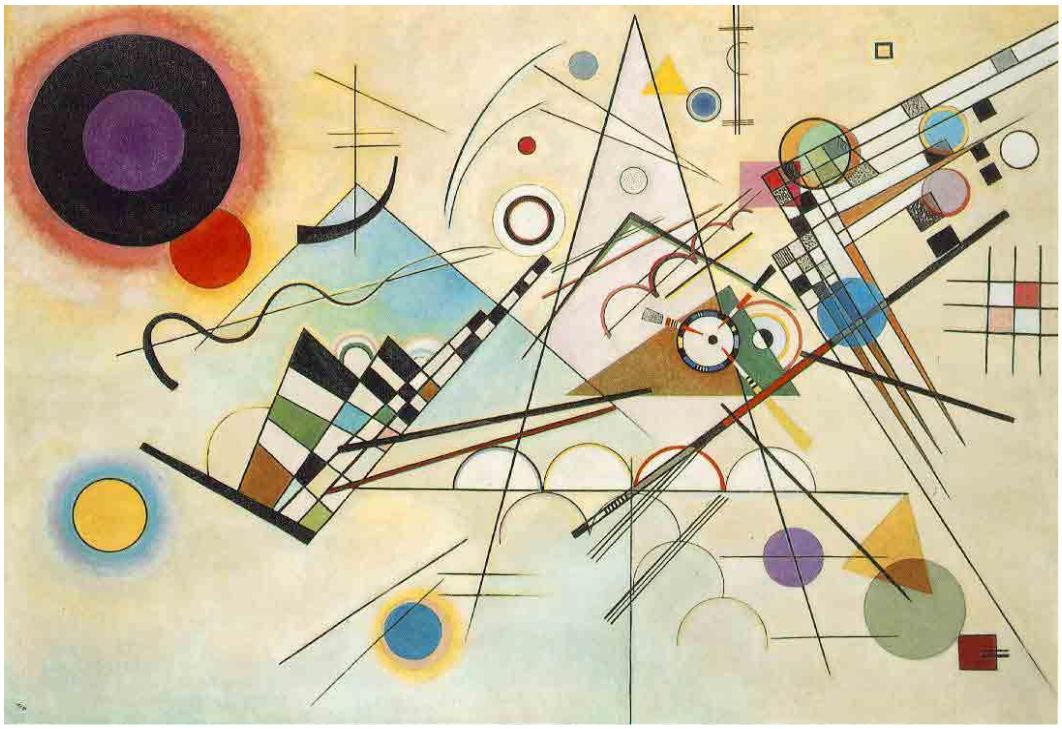
Image sourced from Google

"Composition X", 1939

How does it make you feel?

What does it remind you of – a wild storm, a dizzy feeling like spinning around, flowing water, wind on a hot summer day . . . ?

If the paintings were moving what would the movement be like? Calm & slow? Topsyturvy like a rollercoaster ride?



Composition VIII, 1923

Yellow, Red, Blue, 1925

What shapes can you see?

What colours can you see?

Images sourced from Google

Black and Violet,1923

If the picture were sounds what noises would you hear coming from it?

"Composition VIII", 1923

Which emotions and feelings does each part of his art represent?

Watch the video on https://www.bbc.co.uk/teach/class-clips-video/art-and-design-ks2-kandinskys-schaukeln/zv7g7nb to learn more.

Images sourced from Google

Art Activity – My emotions in the style of Wassily Kandinsky

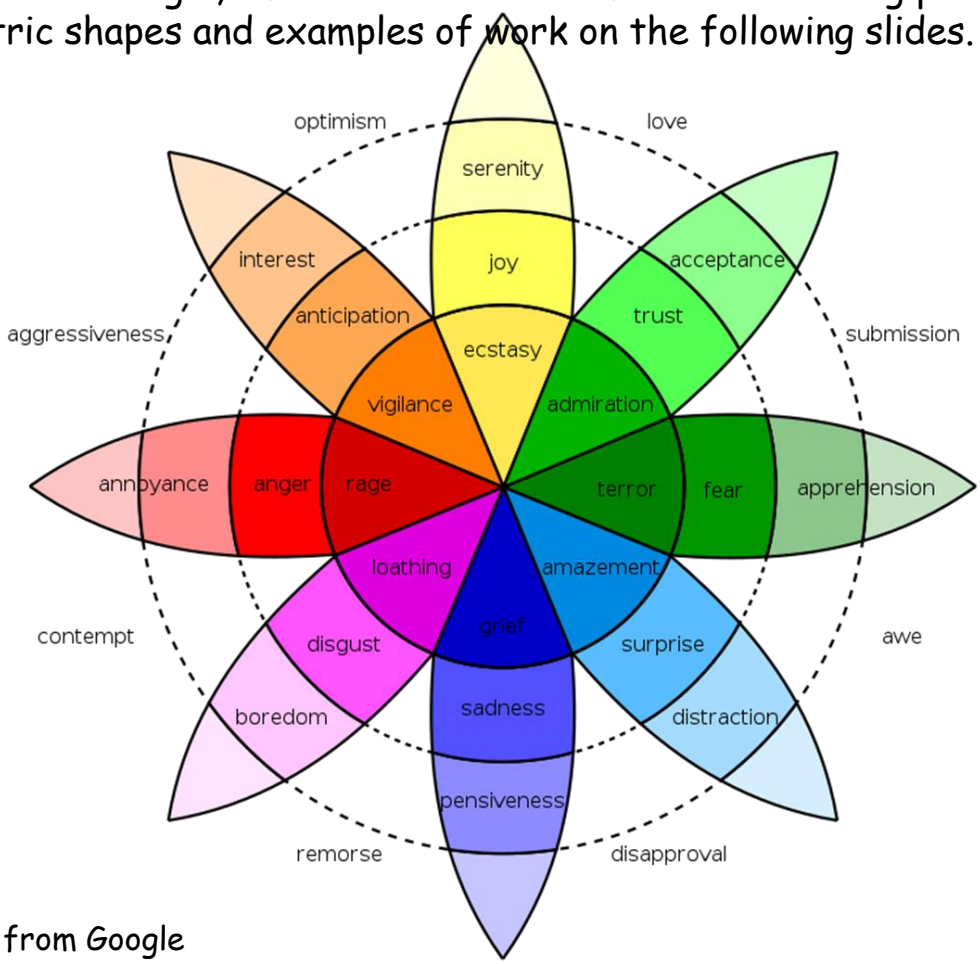
Your task is to create your own piece of abstract art in the style of Kandinsky which captures your own feelings and emotions. You might want to play music whilst you work, to see if that influences how you feel, as it did for Kandinsky. You could focus on one feeling or be inspired by more than one emotion.

Think carefully about the colours and shapes that you use. There is an emotional colour wheel below to use if you need ideas.

Shapes such as squares are thought of as strong, solid, dependable. Triangles can be thought of as sharp and represent aggression, danger and negativity. The sharper the angles – the more severe the emotion. Circles are associated with balloons and bubbles and therefore reflect softness, energy, happiness and positivity. There are many other shapes to use too, including swirls and lines. The size of the shape will also need to be considered

You mat want to cut out shapes to arrange them before adding colour and lines.

Look back at Kandinsky's work one last time before you start. If you are finding it hard to begin, there is a colour-in sheet as a starting point, ideas for geometric shapes and examples of work on the following slides.



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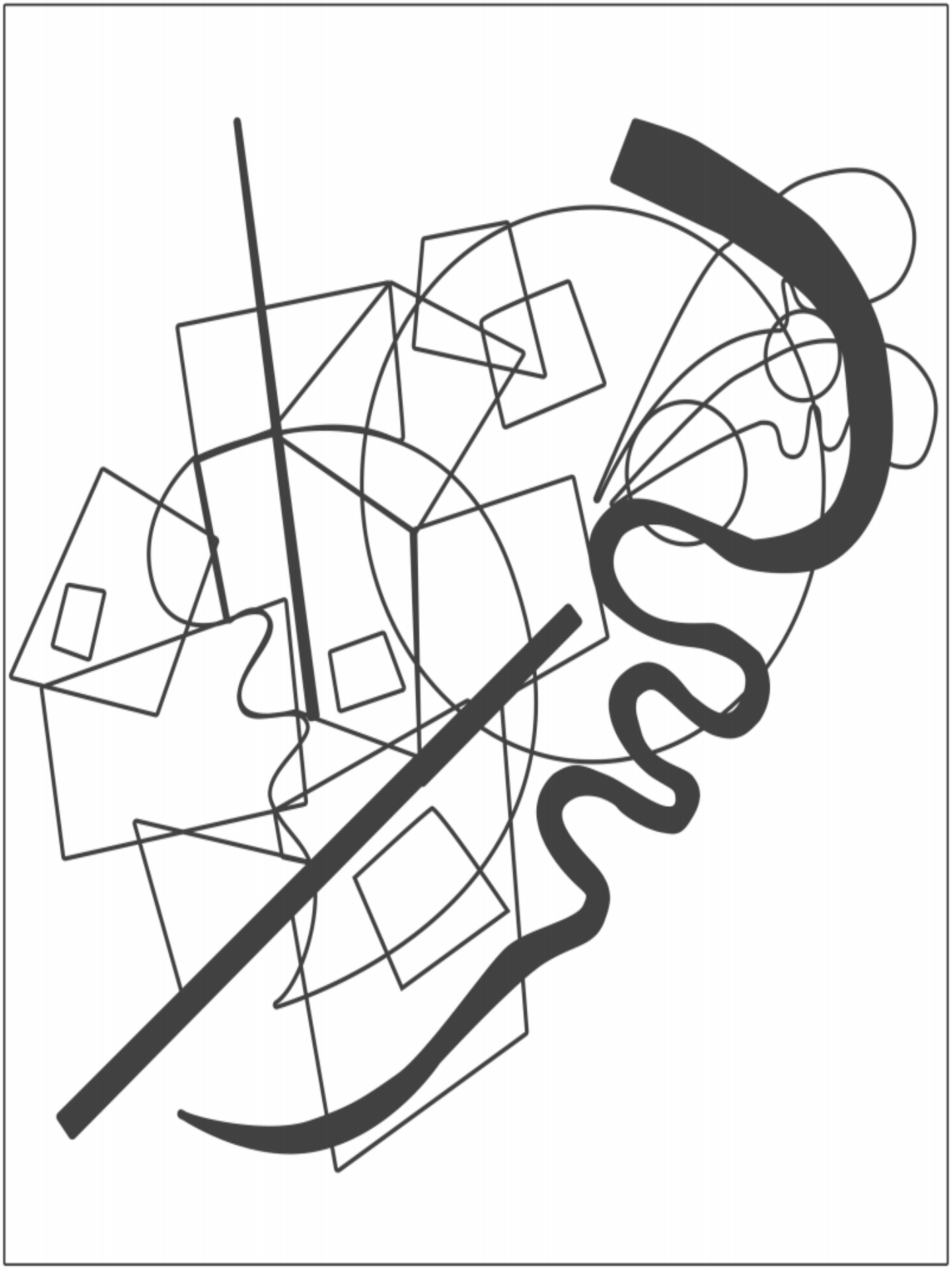

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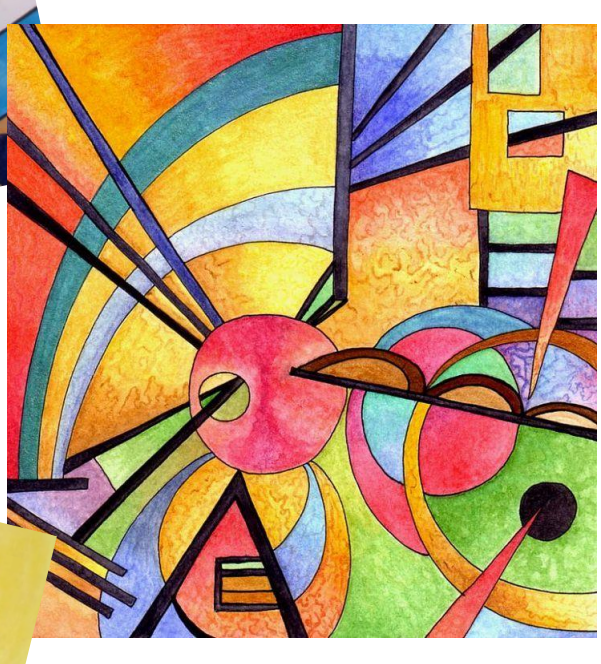

Images sourced from Google

ANSWERS English Activity 3 – Punctuation to show parenthesis

The zebra duiker's light gold or reddish-brown body is strikingly marked from the shoulders to the rump with black _or dark brown _transverse stripes.

The striping pattern _ number of stripes, degree of tapering, and arrangement _ is unique to each individual.

The shoulders and lower legs are darker than the rest of the body, and blackish bands encircle the upper legs _ both front and rear _*.

The face _ which is an overall deep chestnut brown colour _ has no distinctive markings, but the muzzle is black and the lower jaw whitish.

The horns are short, smooth, sharp cones in both males _ 4-5 cm _ and females _ up to 2-3 cm _*.

The Zebra duiker is a herbivore _ plant-eating animal _*.

Zebra duiker are diurnal _ active during the day _ animals.

*Remember if the parenthesis is at the end of the sentence you can only use a pair of brackets or a dash before the information:

The Zebra duiker is a herbivore -plant-eating animal.
The Zebra duiker is a herbivore (plant-eating animal).

ANSWERS Activity 3a - Ten in ten

1) 763 332 + 109 372 = 872 704
2) 1248 ÷ 12 = 104
3) 8^3 = 512
4) 12.4 – 7.28 = 5.12
5) 30% of 4100 = 1230
6) 11.08 x 5 = 55.4
7) 457 x 1000 = 457 000
8) $\frac{1}{7} \div 10 = \frac{1}{70}$
9) 55 ÷ (14 - 9) = 11
10) 15% of 1500 = 225

Challenge

11) How many seconds are there in 12 minutes? 720
12) How many hours are there in 8 days? 192
13) If n + 53 = 107, then n = 54
14) What is the total size of the internal angles in a quadrilateral? 360°
15) $\frac{4}{9}$ of 4500 = 2000

ANSWERS Maths Activity 3b

Read and Interpret Pie Charts

Developing

1. Maria is correct. $\frac{26}{100}$ children chose Angela Horoblitz as their favourite author. $\frac{1}{4}$ of the children surveyed is 25. 26 is greater than 25.
2. Supreme Moments Ltd. has 48 French employees.
3. Feta cheese – 22; total number of attendees = 88.

Expected

4. Astrid is correct. Mandy and Jenny are the only female authors. 21 + 21 = 42. 336 ÷ 4 = 84 so this is $\frac{1}{4}$. 42 is less than 84.
5. 43 more Russians. Driven by Dreams Ltd. employs 129 Russians whereas Happiness Lasts Forever Ltd employs 86 so 129 – 86 = 43.
6. Grilled swordfish - 196; Lamb kebabs – 294. The missing label at the bottom left of the table should say 'Total number of people'. The missing label on the pie chart key is 'Spanish omelette'.

Greater Depth

7. Felix is correct. Ethel, Louis and Larry are the only authors listed that have five letters in their first names. 54 + 78 + 146 = 278. $\frac{2}{3}$ of 834 = 278
8. Banish Those Blues Ltd. has 109 Japanese employees and Happy Workforce Ltd. has 78. Banish those Blues has the largest number.
9. Tortillas - 87; Potato enchiladas – 348; Chorizo Tacos – 174 and the total number of attendees was 696.

ANSWERS Maths Activity 3c

Draw Pie Charts

Developing

1. Margherita; 180 votes, 180°
Veggie; 40 votes, 40°
Pepperoni; 60 votes, 60°
Meat Feast; 80 votes, 80°
2. Blonde; 10 votes, 100°
Brown; 16 votes, 160°
Black; 7 votes, 70°
Ginger; 3 votes 30°

3. Hannah is correct. To convert data into degrees you have to divide 360 by the total number. 360 ÷ 360 = 1

Expected

4. Football; 7 votes, 105°
Swimming; 4 votes, 60°
Reading; 6 votes, 90°
You Tubing; 5 votes, 75°
Baking; 2 votes, 30°
5. Blue; 20%, 72°
Red; 20%, 72°
Green; 10%, 36°
Purple; 30%, 108°
Yellow; 10%, 36°
Orange; 10%, 36°

6. Jordan is correct. To convert data into degrees you have to divide 360 by the total number. 360 ÷ 18 = 20

Greater Depth

7. Rowling; 36 votes, 108°
Horrorit; 7 votes, 21°
Deal; 14 votes, 42°
Malliams; 33 votes, 99°
Wilsing; 19 votes, 57°
Morperso; 11 votes, 33°
8. Mango; 15%, 54°
Kiwi; 5%, 18°
Banana, 10%, 36°
Grapes, 25%, 90°
Apple, 35%, 126%
Orange, 10%, 36°

9. William is not correct. You need to divide 360 by the total number surveyed and then multiply by the number of people for that category. For example, if there were 90 people surveyed and there were 7 people in one category you would do 360 ÷ 90 = 4; 4 x 7 = 28.

ANSWERS Maths Activity 3d

90 chocolate ice-creams were sold