LEARN WITH HAMMY and FRIENDS

$10 \times 2 = 20$

$3 + 3 = 6$

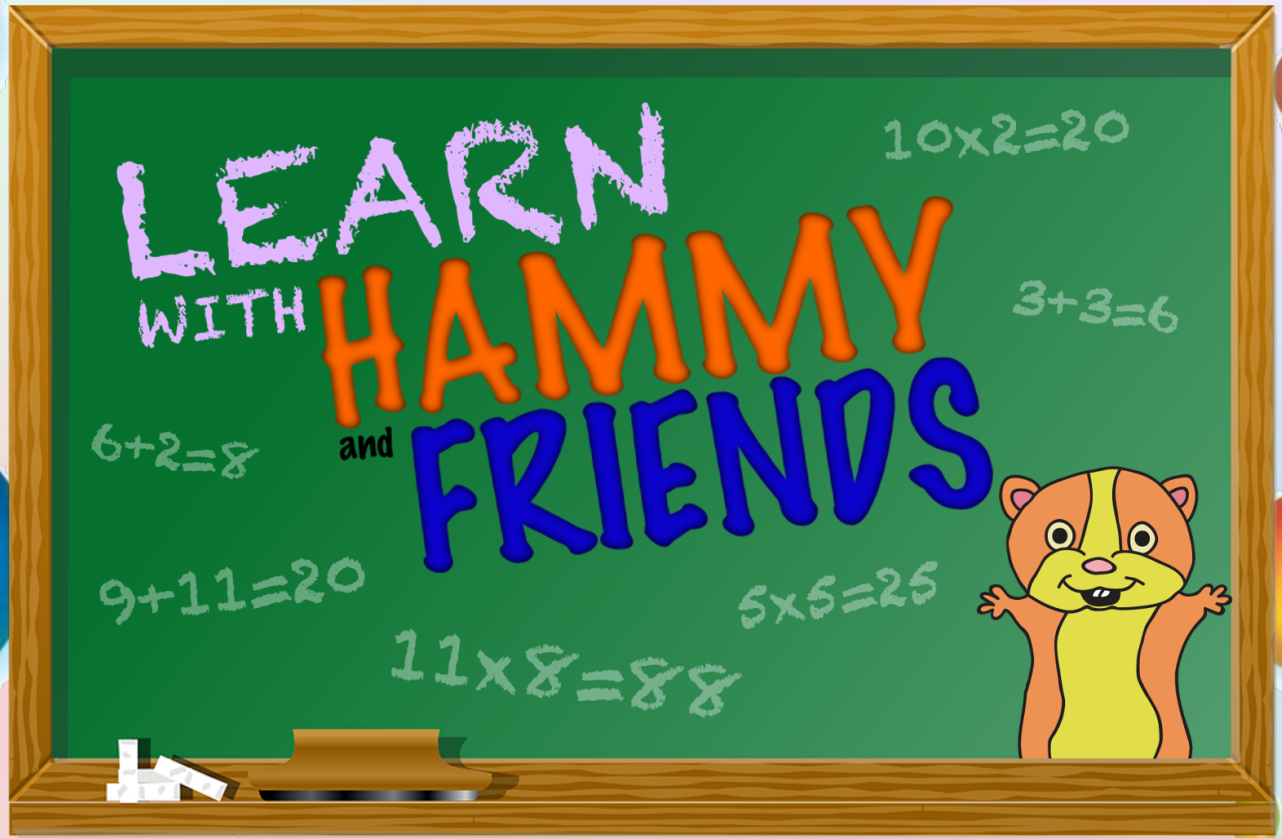$6 + 2 = 8$

$9 + 11 = 20$

$5 \times 5 = 25$

$11 \times 8 = 88$

ANSWERS

Punctuation

Here's a paragraph from one of Hammy's books, but it has no punctuation. Can you correct all the mistakes?

the party was full of animals There was a badger a fox a rabbit a mouse a lizard a tortoise a caterpillar a duck an alligator an elephant a queen bee a penguin a giraffe an iguana a jaguar a kangaroo a newt and an otter. I couldn t believe my eyes.

I don't want to sound rude, but what is this party for I asked.

There are 24 mistakes. Did you spot them all?

The party was full of animals. There was; a badger, a fox, a rabbit, a mouse, a lizard, a tortoise, a caterpillar, a duck, an alligator, an elephant, a queen bee, a penguin, a giraffe, an iguana, a jaguar, a kangaroo, a newt and an otter. I couldn't believe my eyes.
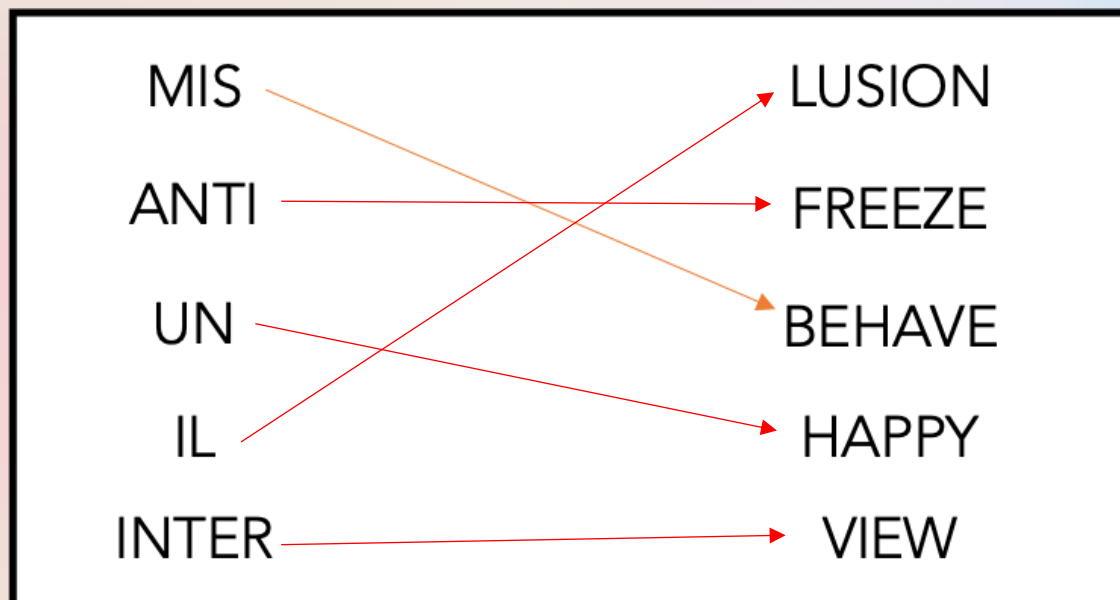
"I don't want to sound rude, but what is this party for?" I asked.

Prefixes and Suffixes

What are they?

PREFIXES

Match the prefixes to a base word…

MIS	LUSION
ANTI	FREEZE
UN	BEHAVE
IL	HAPPY
INTER	VIEW

Matches shown:
- MIS → BEHAVE
- ANTI → FREEZE
- UN → LUSION
- IL → HAPPY
- INTER → VIEW

Prefixes and Suffixes
What are they?

SUFFIXES

Now add the suffix **ly** or **ed** to make a new word.

Careful<u>ly</u>   Fluster<u>ed</u>

Kind<u>ly</u>   Cherish<u>ed</u>

Painful<u>ly</u>   Calm<u>ly</u>

Adjectives, Verbs and Nouns

Sort out all the words into the correct columns.

bed	tall	green	make
fish	watch	dog	fly
horse	cry	car	blue
ride	smoky	sing	school

ADJECTIVE	VERB	NOUN
tall	ride	bed
smoky	watch	fish
green	cry	horse
blue	sing	dog
	make	car
	fly	school

Pronouns and Adverbs

What are they?

PRONOUNS

Fill in the correct pronoun in the following sentences:

1. Mum and I went to the cinemas yesterday.

2. This is my dad's favourite chocolate so I will put it in my basket and buy it for him.

3. The teacher gave more homework to them.

Pronouns and Adverbs

What are they?

ADVERBS

Circle the adverbs in the following sentences:

1. We (finally) got our grades from the test.

2. We danced (merrily) around the playground.

3. We ran to the park (quickly.)

4. My mum cares for me (deeply.)

5. I (almost) ate a rotten apple.

Sentences

Your task: write 3 descriptive sentences.

When marking their 3 descriptive sentences, sit with your child and ask them to identify what the adjectives, verbs, nouns, pronouns or adverbs are they have used.

Metaphors and Similes

shaking	giant
quietly	hair
slept	flaming
sun	erupting

1. The girl was <u>shaking</u> like a leaf.

2. The boy <u>slept</u> like a log.

3. The children crept as <u>quietly</u> as mice.

4. The icicle shone like the <u>sun</u>.

5. The sun was a <u>flaming</u> golf ball in the sky.

6. The bear was a furry <u>giant</u>.

7. The teacher was an <u>erupting</u> volcano, exploding with lava.

8. Her <u>hair</u> was a silky blanket.

Onomatopoeia and Personification

ONOMATOPOEIA

YOUR TASK: match the words to the correct onomatopoeia word.

balloon	roar
train	pop
bee	zoom
drinking	tick tock
clock	buzz
lion	slurp

Onomatopoeia and Personification

PERSONIFICATION

YOUR TASK: circle the personification in the following sentences.

1. The sun (stretches) its warmth across the land.

2. The chair (danced) as the baby bounced back and forth.

3. The darkness (wrapped) its arms around me.

Now, write you own using the word below…

Tree

FOR EXAMPLE:
THE TREE DANCED IN THE WIND.

Synonyms and Antonyms

What are they?

SYNONYMS

Synonyms are words with the same or similar meaning, such as; happy, cheerful and merry.

ANTONYMS

Antonyms are words with opposite meanings, such as; angry and peaceful.

SYNONYM	WORD	ANTONYM
scorching	hot	cold
done	over	failed
investment	buy	sell
guy	man	woman

You can accept any word that is relevant in the thesaurus.

TEST: creative writing

NOTES FOR PARENTS:

Give them exactly 30 minutes to do this task.

When marking their creative story, check for punctuation, description – use of adjectives, verbs, nouns, adverbs and pronouns, spelling and any other grammar use they have learnt through this booklet.

Don't forget to send it to us as well, we would love to read it.

PLACE VALUE CHALLENGE

there are more than 1 combination on a few of these, so any that fits the criteria is correct.

1. A number between 560 and 600

5, 2, 7, 9

TH	H	T	U
	5	7	9

2. A number between 400 and 420

1, 4, 3, 8

TH	H	T	U
	4	1	8

3. A number between 1000 and 1100

1, 4, 0, 3

TH	H	T	U
1	0	3	4

4. A number between 250 and 300

2, 2, 7, 6

TH	H	T	U
	2	6	7

Numbers: negative numbers

Work out the following sums. You can draw a number line to help if you want to.

1. 0 + (-7) = <u>-7</u>

2. (-3) + 2 = <u>-1</u>

3. 2 + (-8) = <u>-6</u>

4. (-7) + 1 = <u>-6</u>

5. 6 - 9 = <u>-3</u>

6. (-3) + 7 = <u>4</u>

7. (-3) + (-1) = <u>-4</u>

Numbers: factors

YOUR TASK: to find the factors of the numbers.

1. **15** - 1, 3, 5, 15
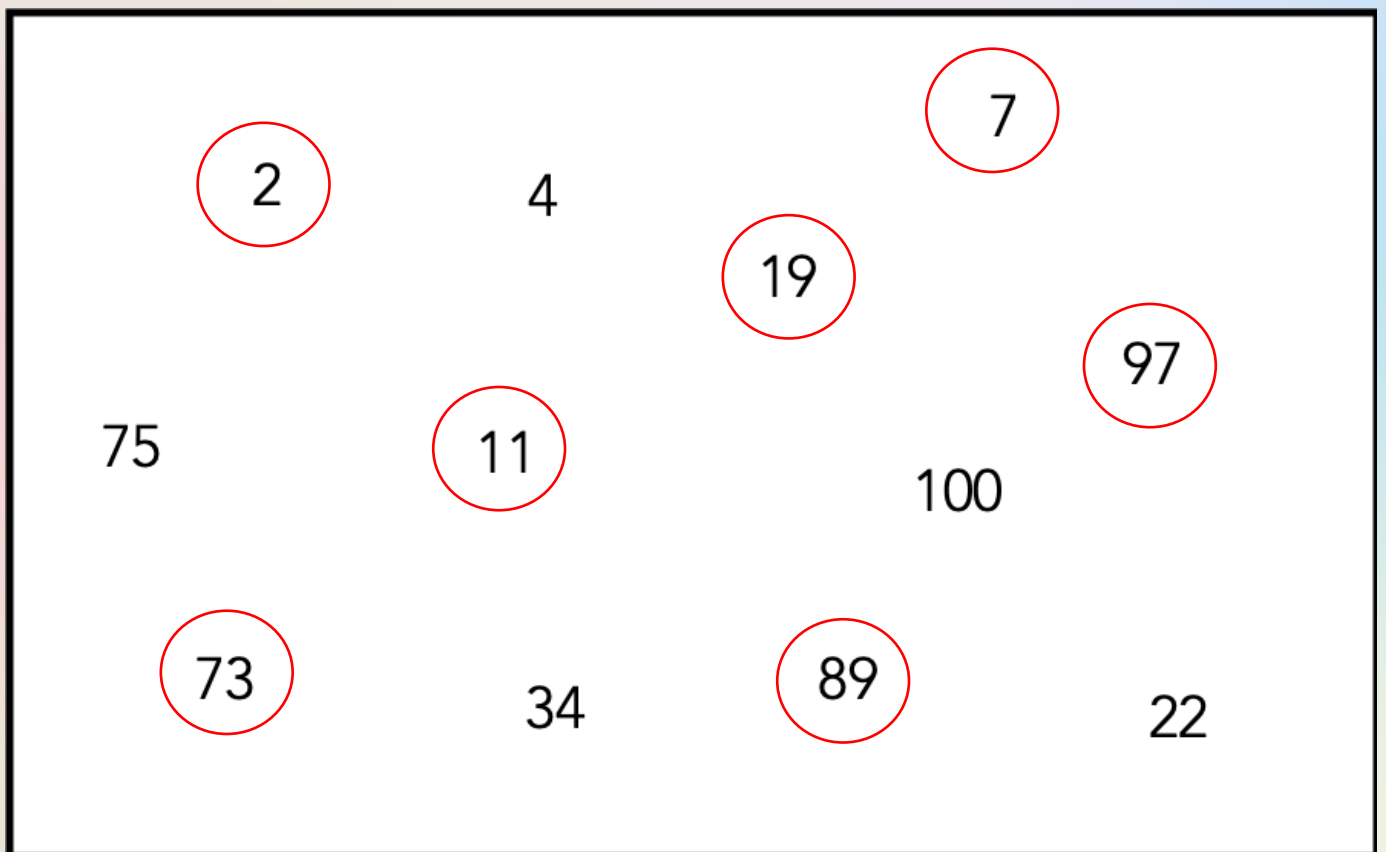
2. **25** - 1, 5, 25

3. **27** - 1, 3, 9, 27

4. **18** - 1, 2, 9, 6, 3, 18

Numbers: prime numbers

Prime numbers are numbers that are divisible by itself and 1.

Can you spot the prime numbers below?

Numbers: squared and cubed numbers

Find the squared and cubed numbers:

1. $2^2 = 2x2 = 4$

2. $3^2 = 3x3 = \underline{9}$

3. $4^2 = \underline{4x4} = \underline{16}$

4. $5^2 = \underline{5x5} = \underline{25}$

5. $2^3 = 2x2x2 = \underline{8}$

6. $3^3 = 3x3x3 = \underline{27}$

7. $4^3 = \underline{4x4x4} = \underline{64}$

Addition and Subtraction
Introducing column addition and subtraction

① $539 + 94 = 633$

$$\begin{array}{r} 539 \\ +\ \ 94 \\ \hline 633 \end{array}$$

② $92 + 71 = 163$

$$\begin{array}{r} 92 \\ +\ 71 \\ \hline 163 \end{array}$$

③ $157 - 43 = 114$

$$\begin{array}{r} 157 \\ -\ \ 43 \\ \hline 114 \end{array}$$

④ $882 - 65 = 817$

$$\begin{array}{r} 882 \\ -\ \ 65 \\ \hline 817 \end{array}$$

Multiplication and Division

Introducing the grid method and the short division method

① $253 \times 15 = 3795$

$\times$	200	50	3	
10	2000	500	30	$= 2530$
5	1000	250	15	$= 1265$

$$2530 + 1265 = 3795$$

② $428 \times 27 = 11,556$

	400	20	8	
20	8000	400	160	$= 8560$
7	2800	140	56	$= 2996$

$$8560 + 2996 = 11556$$

③ $109 \div 4 = 27 r 1$

$$\begin{array}{r} 0\,2\,7\,r1 \\ 4\,\overline{)1\,{}^{1}0\,{}^{2}9} \end{array}$$

④ $315 \div 5 = 63$

$$\begin{array}{r} 0\,6\,3 \\ 5\,\overline{)3\,{}^{3}1\,5} \end{array}$$

Problem solving

Did you know? Problem solving is around us every day.

When given a problem to solve, it's important to break it down, what operations will I need to use? Addition? Subtraction? Multiplication? Division? All of them? Make sure you read the problems carefully and thoroughly. **ALWAYS** show your workings out.

Your task: solve the problem below.

Pete went swimming. Each length of the pool is 50m long. He swam 6 lengths. How many lengths more does he have to swim so that he has swum 500m in total?

6 x 50m = 300m

500m-300m=200m

200m÷50m=4

Therefore, Pete has to swim 4 more lengths.

Rounding and estimating

Your task: round the following numbers…

To the nearest 10:

1. 467   470
2. 92   90
3. 151   150
4. 739   740

To the nearest 100:

5. 782   800
6. 1457   1500
7. 390   400
8. 251   300

To the nearest 1000:

9. 1389   1000
10. 7628   8000
11. 1920   2000
12. 9215   9000

Rounding and estimating

You can use estimation to get a rough idea of what the answer is. To estimate it's always best to round the numbers. If your estimation is very different to the actual answer, then a mistake will have been made. Use a calculator to check your result.

Your task: estimate the answers to these sums.

1. 501 x 12 = 5000

2. 75 x 14 = 800

3. 59.6 x 22 = 1800

Basic Algebra

Equations

Your turn: work out the following equations.

1. $18 + x = 29$ $\qquad x = 11$

2. $59 - x = 14$ $\qquad x = 73$

3. $145 + x = 230$ $\qquad x = 85$

Fractions, decimals and percentages

Your task: work out the following sums.

1. $\dfrac{3}{6} + \dfrac{1}{6} = \dfrac{4}{6}$

2. $\dfrac{2}{5} + \dfrac{2}{5} = \dfrac{4}{5}$

3. $\dfrac{6}{11} + \dfrac{3}{11} = \dfrac{9}{11}$

4. $\dfrac{3}{10} + \dfrac{2}{5} = \dfrac{7}{10}$

Now, work out these sums to their simplest form:

1. $\dfrac{10}{20} \times \dfrac{2}{4} = \dfrac{5}{6}$

2. $\dfrac{5}{7} \times \dfrac{3}{5} = \dfrac{3}{7}$

3. $\dfrac{9}{11} \times \dfrac{2}{4} = \dfrac{9}{22}$

4. $\dfrac{2}{6} \times \dfrac{3}{5} = \dfrac{1}{5}$

Fractions, decimals and percentages

Your task: Put the following decimals in order from smallest to largest.

| 0.85 | 1.3 | 0.42 | 0.12 | 1.9 | 2.7 |

| 0.12 | 0.42 | 0.85 | 1.3 | 1.9 | 2.7 |

| 1.72 | 0.02 | 0.20 | 0.98 | 1.74 | 6.5 |

| 0.02 | 0.20 | 0.98 | 1.72 | 1.74 | 6.5 |

Fractions, decimals and percentages

Your task: round the following decimals to the nearest tenth.

1. 4.83   4.9

2. 19.31 19.3

3. 3.87   3.9

4. 16.78 16.8

Now, round the following decimals to 2 d.p.

1. 17.782   17.78

2. 6.231   6.23

3. 9.347   9.35

4. 25.739   25.74

Fractions, decimals and percentages

Convert these decimals to percentages

1. 0.92 = 92%

2. 0.32 = 32%

3. 0.87 = 87%

4. 0.45 = 45%

5. 0.99 = 99%
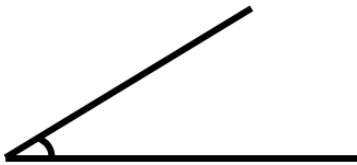
Convert these percentages to decimals
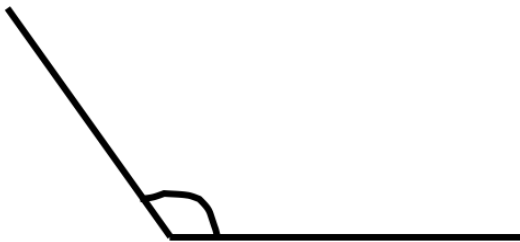
1. 56% = 0.56
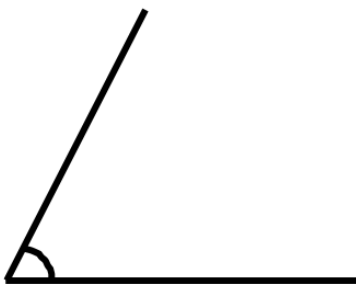
2. 90% = 0.9

3. 21% = 0.21

4. 12% = 0.12

Angles

What are the angles?

= 149°

= 54°

= 115°

Measurements

YOUR TASK: Convert the following measurements:

Convert these lengths into centimetres.

1. 20mm = 2cm

2. 50mm = 5cm

3. 35mm = 3.5cm

Convert these lengths in metres.

1. 200cm = 2m

2. 700cm = 7m

3. 450cm = 4.5m
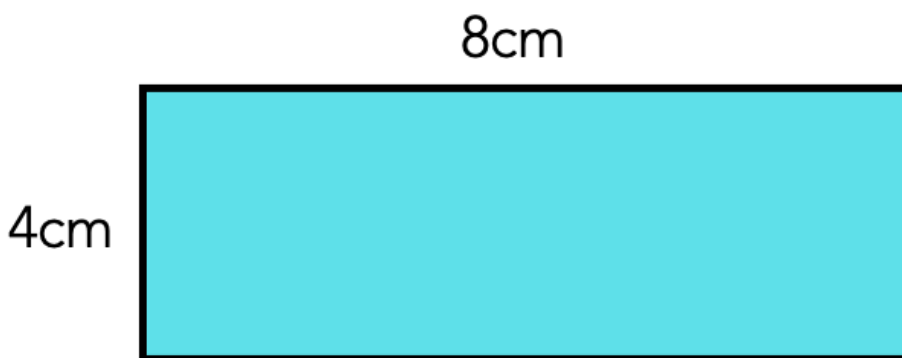
Measurements

YOUR TASK: find the perimeter and area of these rectangles...

10cm

7cm
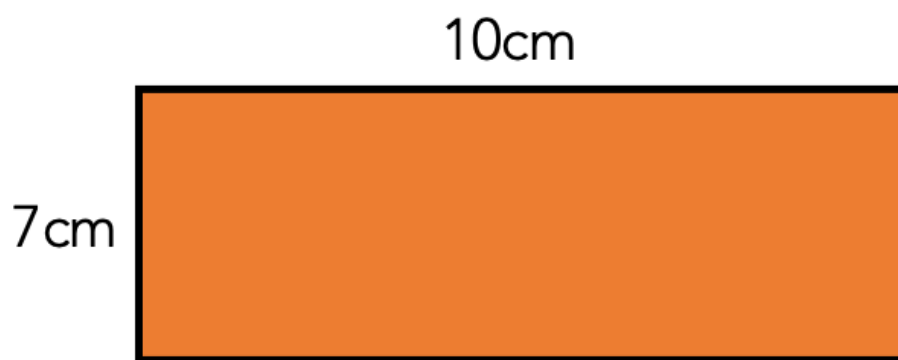
Perimeter = 34cm
Area = 70cm^2

8cm

4cm

Perimeter = 24cm
Area = 32cm^2

Data handling

There are many ways of handling data, such as; charts and graphs. Answer the easy question below…

Tommy collected some information about the colours of some cars.

Colour	Number of cars
green	2
red	8
black	4
grey	10

The bar graph shows the information from the table. Fill in the missing labels.

number of cars

10
8
6
4
2
0

green   red   black   grey

colour
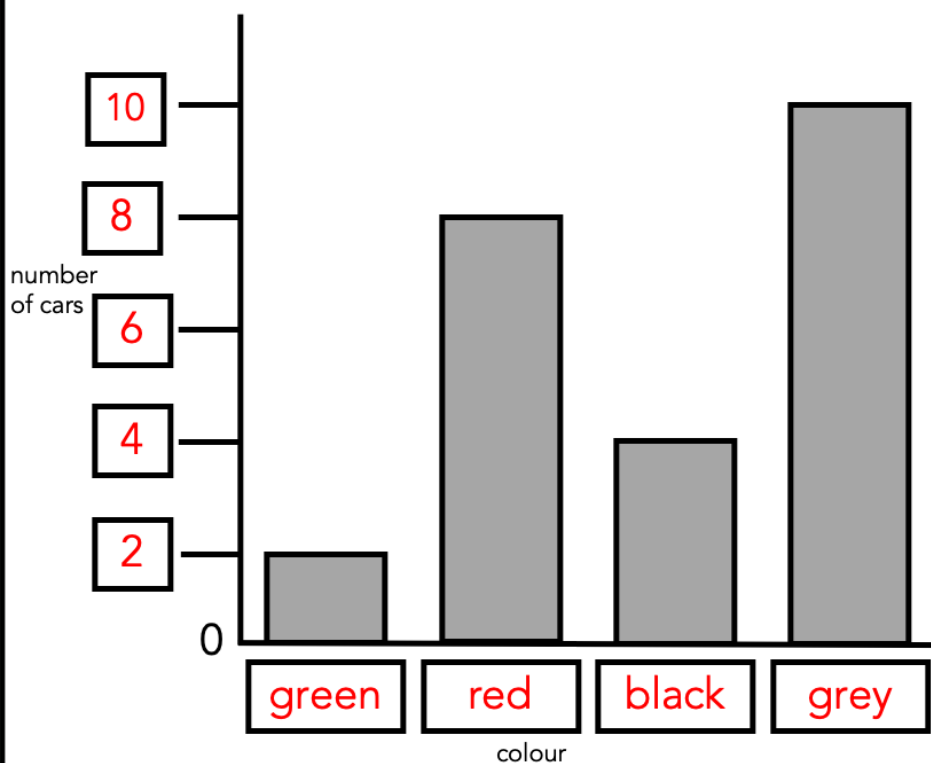
Data handling: finding averages

YOUR TASK: Find the mode, median, mean and range of these following numbers.

3	12	15	8	4	3	2

Mode - 3

Mean – 6.71

Median - 4

Range - 13

Test Time

1. Write down all the factors of 35

1, 5, 7, 35

(2 marks)

2. give an extra mark each if shown workings out.

a) 459 + 183 = 642

b) 972 – 135 = 837

c) 89 x 4 = 356

d) 165÷3 = 55

(8 marks)

3.
a) round 568 to the nearest 10 570
b) round 1357 to the nearest 100 1400
c) round 8930 to the nearest 1000 9000

(3 marks)

4. What is the value of x?

$759 - x = 289$

$x = 470$

(2 marks)

5. What is the perimeter and area of the rectangle below?

11cm

7cm

Perimeter = 36cm

Area = 77cm^2

(4 marks)

6. Work out the mean of these numbers.

8   5   7   7   10   11   13

(2 marks)

Mean = 8.71

Animals

VERTEBRATES	INVERTEBRATES
Accept any: fish birds mammals amphibians reptiles	jellyfish corals slugs snails mussels octopus srab shrimps spiders butterflies beetles

Microorganisms

mould	wash	bread
bacteria	microscope	yeast
viruses	microorganisms	water

Microorganisms can only be seen through a microscope as they are very tiny. We can find microorganisms all around us in food, water, air and in our bodies. Mould is a microorganism found on rotten food. Viruses are microorganisms which can cause the common cold. Bacteria found in all our mouths is a microorganism. Bacteria can be very useful in the making of bread and beer in the form of yeast. To avoid the spread of harmful microorganism we should wash our hands regularly with soap and hot water.
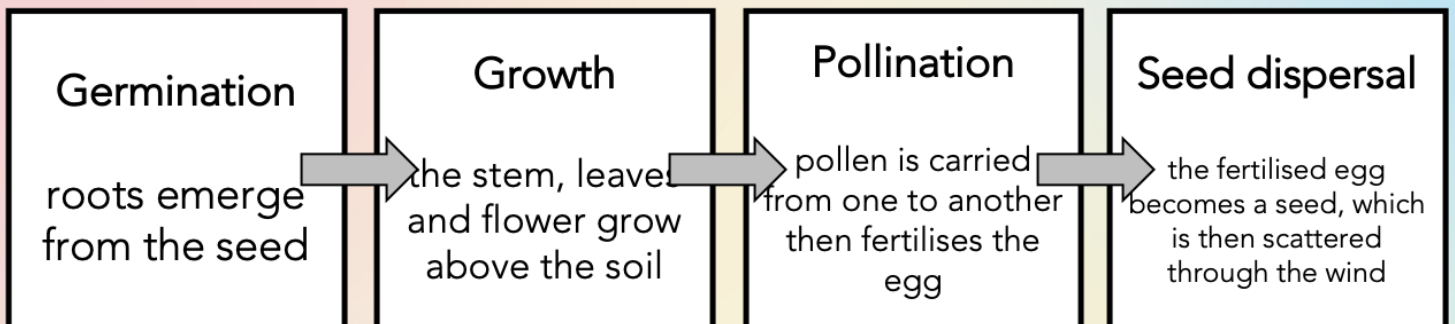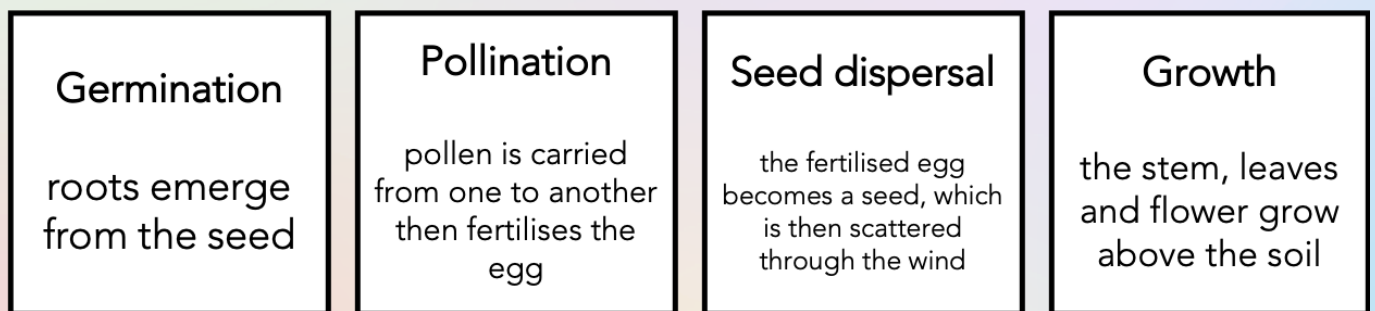
Food chains

producer

consumer

consumer/prey

predator
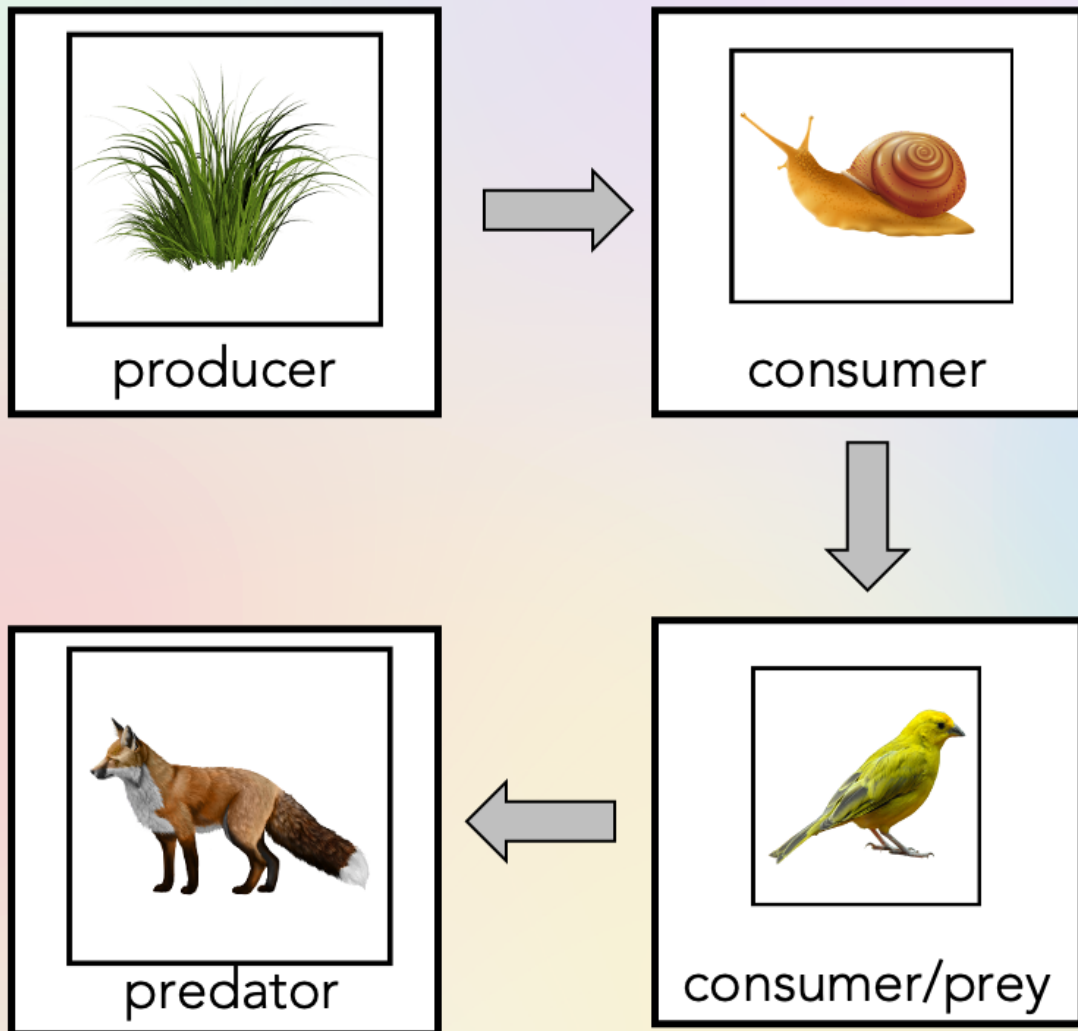
Plants

water	carbon dioxide	flowers	light
stem	photosynthesis	nutrients	produce

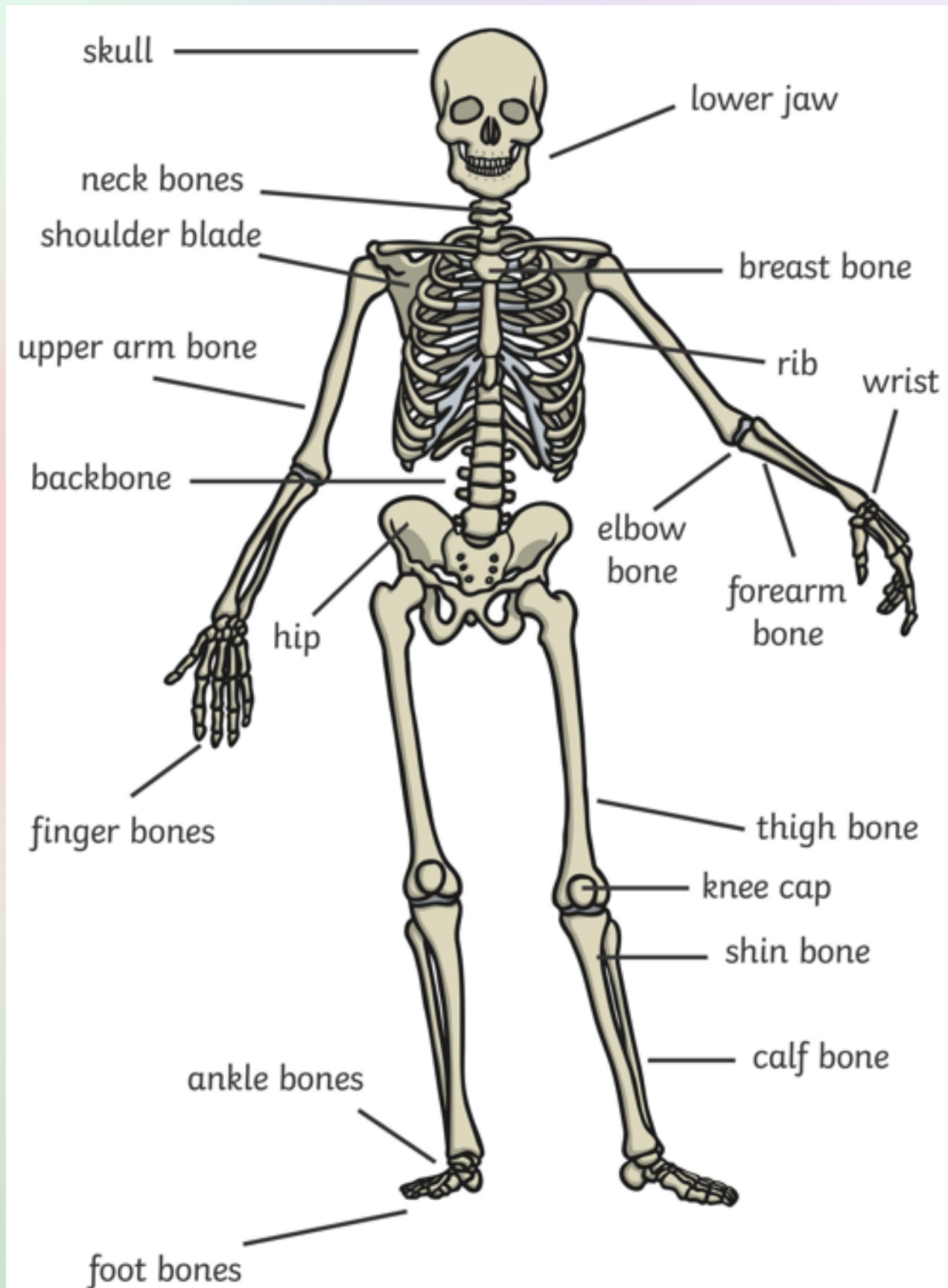The roots of a plant take up <u>water</u> and <u>nutrients</u> from the soil. The <u>roots</u> carries water and nutrients to different parts of the plant. The leaves use <u>light</u> from the sun, along with <u>carbon dioxide</u> from the air and water to make food. This process is called photosynthesis. Some plants have <u>flowers</u>. These are involved in reproduction and <u>produce</u> seeds from which new plants can grow.

Plants

YOUR TASK: Put the following plant's life cycle in order.

Germination	Pollination	Seed dispersal	Growth
roots emerge from the seed	pollen is carried from one to another then fertilises the egg	the fertilised egg becomes a seed, which is then scattered through the wind	the stem, leaves and flower grow above the soil

Germination	→	Growth	→	Pollination	→	Seed dispersal
roots emerge from the seed		the stem, leaves and flower grow above the soil		pollen is carried from one to another then fertilises the egg		the fertilised egg becomes a seed, which is then scattered through the wind

Human Body

skull

lower jaw

neck bones

shoulder blade

breast bone

upper arm bone

rib

wrist

backbone

elbow bone

forearm bone

hip

finger bones

thigh bone

knee cap

shin bone

calf bone

ankle bones

foot bones

Materials

YOUR TASK: can you write as many different items made out of the five materials you have read about.

Metals	Plastics	Glass	Wood	Fabrics
Cans Railings Handles Etc..	Bottles Bags Cellophane Etc..	Cup Window Etc..	Fence Shed Cabinet Etc..	Clothes Duvets Etc..

States of Matter: Solids, Liquids and Gases

Fill in the gaps, using the words; solid, liquid or gas:

If a SOLID is melted it will turn into a LIQUID, this is calling melting.

If a LIQUID is frozen it will turn into a SOLID, this is called freezing.

If a LIQUID is heated it will turn into water vapor which is a GAS, this is called evaporation.

If a GAS is cooled down, it will turn back into a LIQUID, this is called condensation.

Light and Sound

What is a light source?

A source of light makes light, for example; the sun creates light.

YOUR TASK: fill in the gaps with the correct words.

straight	light	transparent	light
opaque	glass	source	translucent
shortest	shadow	longest	

Light travels in <u>STRAIGHT</u> lines from a <u>SOURCE</u> of light that bounces off an object. We can see the object because the <u>LIGHT</u> enters our eyes. Wood is an <u>OPAQUE</u> material that light cannot travel through. <u>GLASS</u> is a <u>TRANSPARENT</u> material which allows light to pass through. Tissue paper is <u>TRANSLUCENT</u> which will let some light through. When an object blocks out the <u>LIGHT</u>, a <u>SHADOW</u> is formed. Shadows are <u>SHORTEST</u> at midday and <u>LONGEST</u> at the beginning and end of the day.

Space

There are 8 planets in our solar system… can you name them?
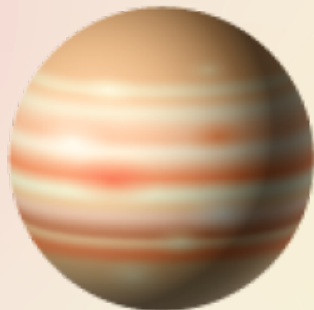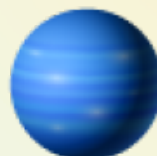
MERCURY

VENUS

VENUS
MERCURY
MARS
JUPITER
NEPTUNE
URANUS
EARTH
SATURN

EARTH

MARS

JUPITER

SATURN

URANUS

NEPTUNE

NOTE FOR PARENTS:

We would like to thank you for downloading this educational booklet for your child/children.

Please could you help us raise the attention for ALL parents to download this and use it too. You can do this by:
- sharing our Facebook post
- messaging your friends
- taking pictures of your children doing an activity and upload it to your Facebook and/or our page.

This booklet is FREE, but you can always donate via our website…
www.hammyandfriends.co.uk/learnwithhammy

Thank you so much.