Activities (1) Weeks 3 & 4 SEND HOME LEARNING

These activities cover a range of objectives and can be adapted to suit. Work through this at your own pace. The activities get progressively more challenging and incorporate all operations (+, -, x and ÷) into activities involving money, time and shape as well as sequencing. . ALL SEND ACTIVITIES ARE IN THIS DOCUMENT AND GET PROGRESSIVELY MORE CHALLENGING. Please choose ability-appropriate activities and do not think you have cover everything. Things you need to practise will become evident.

This involves putting the maths in context and using prior knowledge to solve a problem. It's a good idea to have some spare paper handy to write your own questions when you finish. Go through each question and answer and get the child to **explain** how they worked it out Ask them to 'teach' you how to solve a question and have a go at a few yourself (make some errors to see if they spot them and can explain where you went wrong!) If you have any extra resources (shapes, money, counters, beads, straws, etc) you could use them to help show how you **prove** the answer is correct.

The questions get harder as you go through. If they are too tricky, stop and revisit previous ones, changing the numbers appropriately. What's important is that children can apply what they know and use the method shown, as well as explain how they got to the answer.

Please make sure children have silent **'thinking time'** before answering questions. This requires the adult to stay silent for at least 10 seconds



Here are a few tips to help you deliver these activities and engage your child in learning:

Use objects/real resources where possible.

Many children are kinaesthetic learners which means they learn through doing. As children move tangible objects around it helps them comprehend the concept of numbers more deeply. You can use anything you want – buttons, pebbles, or, if you're struggling to get them enthused, something they're crazy about like cars or Lego.

• Put the larger number in your head

When encouraging children to do mental arithmetic, teach them to put the largest number (of the two you are adding) in their head. Model this physically as you say it. For example, if the addition is 9 + 4, say: "Right, let's put the largest number in our heads, so that's nine." Then tap your head and say: "So we're putting nine in our heads and then counting on four." This clear, precise modelling will help them to learn this useful strategy. Once they have put the largest number 'in their head' they can then use their fingers to count on until they are secure with mental + / -.

Number squares and number lines

At school, children will be using number lines and number squares (or 100 squares) regularly. Depending on their learning style some will find it more beneficial than others, but it's certainly worth a try. There are lots free to print on the internet of you do not have one. (There are examples on the last page of this document)

Draw pictures

This works first of all because many children enjoy drawing and secondly because it gives a physical representation of the addition. Urge your child to keep the drawings small and basic (otherwise you'll be there all day!)

Practise rapid recall

When children come to school, learning number facts is a principal focus. For example, children are expected to learn number bonds to ten (e.g. 7 + 3 = 10, 9 + 1 = 10 etc.) Support your child by reciting the possible combinations together. Also explain that you can always swap the number order around when it comes to addition, so if 6 + 4 = 10 so does 4 +

Encourage real life situations

The fundamental purpose of learning in maths lessons is that children (and the adults they'll grow to be) can **use** it in their everyday life. Giving them real-life opportunities to practise their addition skills also makes them feel grown up and boosts their self-esteem. So at the supermarket get them to put, for example, five oranges and four apples in your basket and ask them how many pieces of fruit you'll be buying.

Similarly learning money basics when you're out and about can be a great incentive for getting their number brain working!

Invent story questions

Devising and **working through story questions is a crucial element of maths**. Children can really enjoy this especially if you make the stories about something they have an interest in, e.g. using characters from their favourite book or TV programme, food they love or their school friends. A story question (also known as a word problem) might read as follows: *There were seven cupcakes and six biscuits on a tray. How many treats were there altogether?*

The activities in this document are varied and quite practical. Be as creative as possible when delivering sessions. Look for opportunities to extend the learning and adapt it where necessary.

If children are struggling, try modelling how you'd solve a similar problem and try speaking aloud your thoughts; slowly articulating what you see, do, and reason, will help them process what to do.

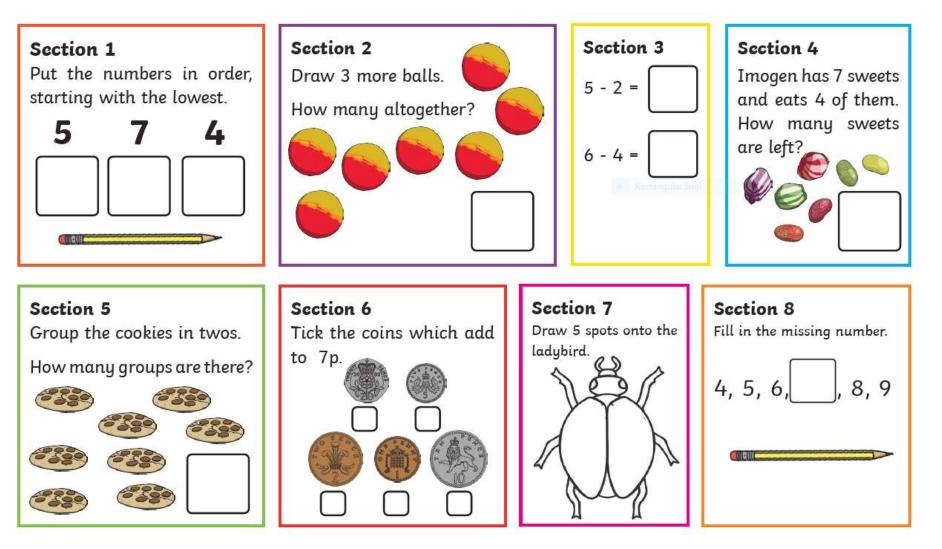
It can be very challenging engaging children and getting them to focus. Don't think you have to 'teach' an hour a day of maths *every day*; you may wish to do 10-minute activities throughout the day or have a day where you don't do formal maths.

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********************************** ¢ ********************** Section 2 Section 3 Section 1 Section 4 Put the numbers in order, Draw 4 more balls. Nina eats 6 sweets. 8 + 2 = starting with the lowest. How many sweets How many altogether? are left? 8 5 6 7 - 5 = 5 + 6 = Section 5 Section 7 Section 6 Section 8 Fill in the missing number. Draw 8 spots onto the Group the cookies in twos. Tick the coins which ladybird. An equal add to 11p. How many groups are there? number on each side. ,18,20 12, 14, 280 ☆ ☆ ☆

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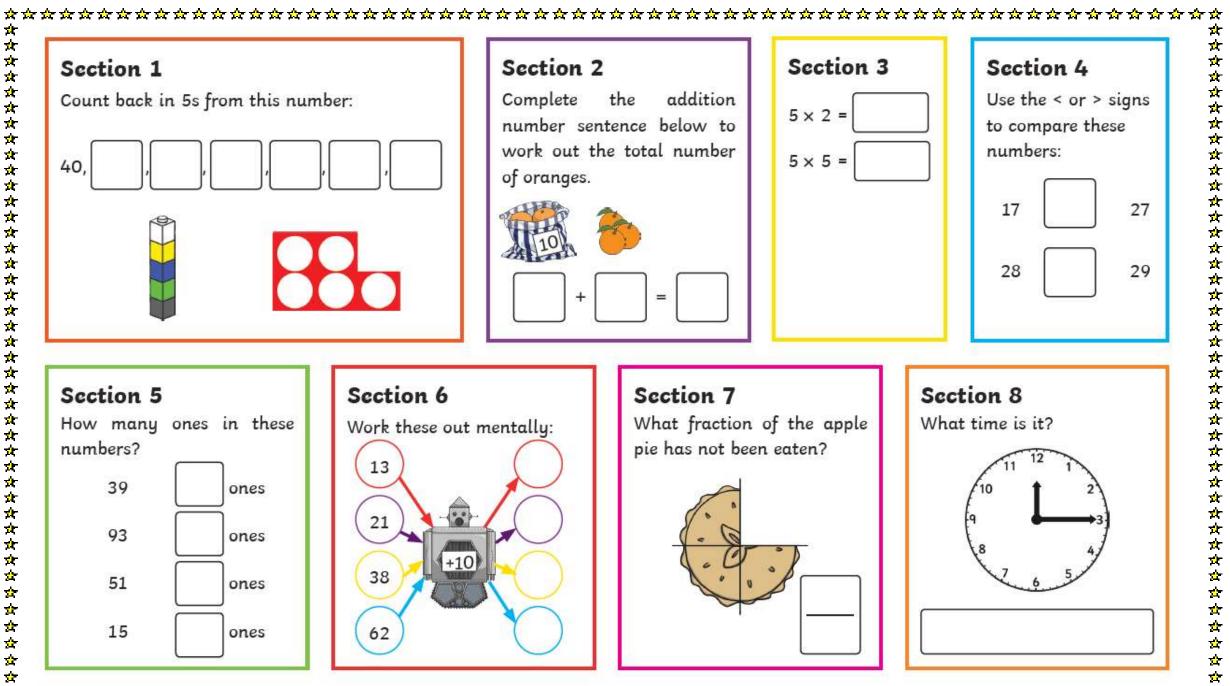
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Section 2 Section 3 Section 4 Section 1 Put the numbers in order. Draw 5 more balls. Freija eats half the 11 + 7 = starting with the lowest. sweets. How many How many altogether? sweets are left? 15 18 12 16 15 - 7 = 12 - 3 = Section 5 Section 6 Section 7 Section 8 Fill in the missing number. Draw 12 spots onto Group the cookies in twos. Tick the coins which the ladybird. An equal add to 35p. How many groups are there? number on each side. 24, 22, 20, , 16, 14

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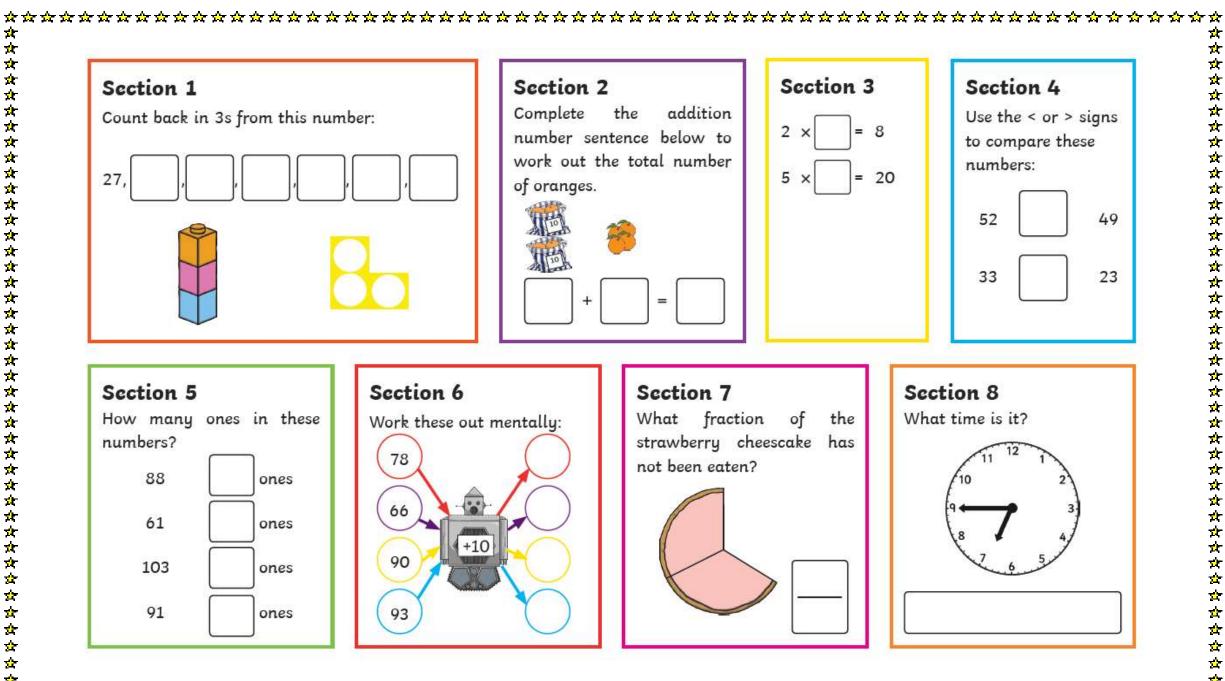
***************** **弁** ********************************** Section 2 Section 3 Section 1 Section 4 Count back in 2s from this number: addition Use the < or > signs Complete the $2 \times 2 =$ number sentence below to to compare these work out the total number numbers: $2 \times 4 =$ 14 of cookies. 15 10 -380 8 3 + = Section 5 Section 6 Section 7 Section 8 What fraction of the pizza How many ones in these What time is it? Work these out mentally: has been coloured in? numbers? 6 12 ones ... 3 8 ones +2 9 23 ones 16 ones 7

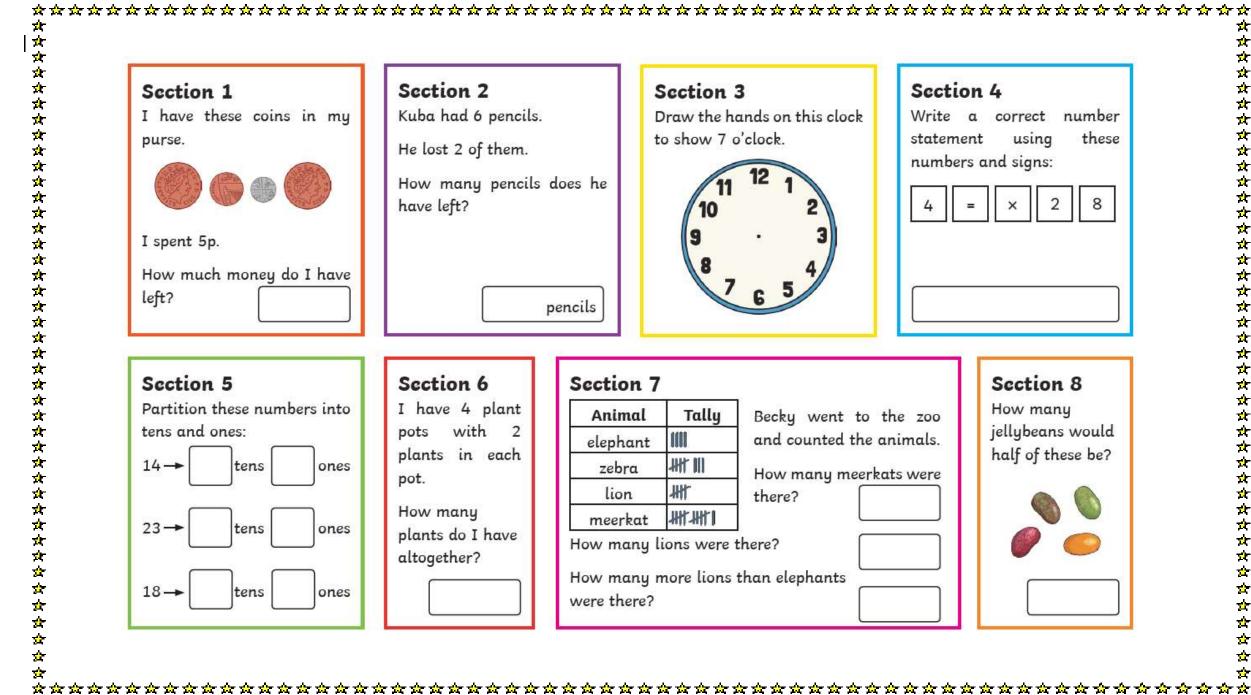
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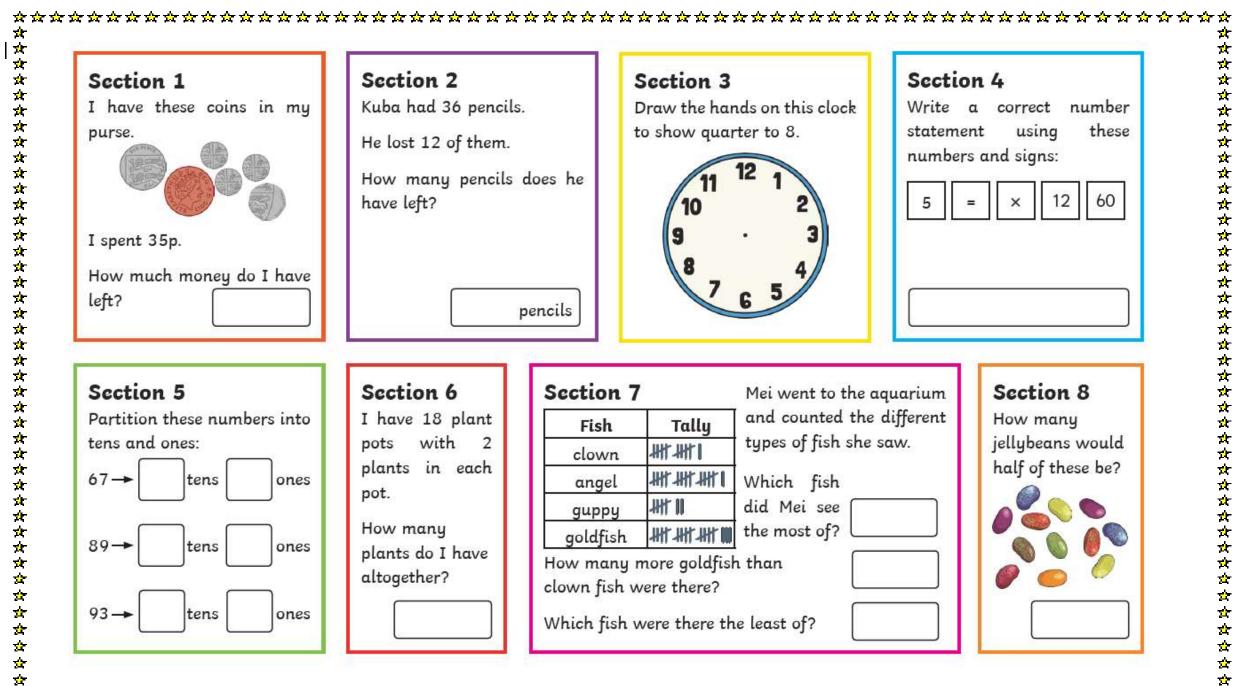
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in my	Section 2 Kuba had 6 pencils. He lost 2 of them. How many pencils d have left?	loes he encils	Section 3 Draw the ho to show 7 o	ands on this clock	statem	a correct number
bers into ones ones ones	Section 6 I have 4 plant pots with 2 plants in each pot. How many plants do I have altogether?	303	I Tally t IIII IIII IIII IIII IIII IIII t IIII IIII t IIII IIII t IIII IIII t IIII IIII t IIII t IIII t IIII IIII IIII IIII IIII IIII IIII IIII IIII	Becky went to and counted the How many meer there? :here?	animals.	Section 8 How many jellybeans would half of these be?

* ****************************** Section 1 Section 2 Section 3 Section 4 I have these coins in my Kuba had 26 pencils. Draw the hands on this clock Write a number correct to show 11:15. using these statement purse. He lost 7 of them. numbers and signs: How many pencils does he 50 have left? 10 5 x I spent 20p. How much money do I have left? pencils Section 5 Section 6 Section 7 Section 8 I have 8 plant Partition these numbers into How many Tally Animal Paul went to the zoo and tens and ones: with 2 jellybeans would pots ## 1 counted the animals. elephant plants in each half of these be? ## III 28tens ones zebra How many meerkats were pot. lion there? How many 111-111-111-1 meerkat 42→ ones tens plants do I have How many elephants were there? altogether? How many more zebras than elephants 71ones tens were there?



Section 1 Write an addition number sentence which is represented by the dienes.	Section 2 How long is the peg doll?	Section 3 Draw coins that add up to the price of the toy.	Section 4 Draw a square using a ruler.
Section 5 Billy and Kamil equally share 10 conkers. How many conkers will they each have?	Section 6 Draw a line to cut the pizza in half.	Section 7 Using these numbers, write 2 addition number statements.	Section 8 Write the numbers below as numerals: nine five seven

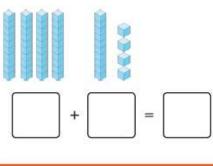
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Section 1



Section 2



Section 3

Section 5

Section 6



Section 7

18	8	10
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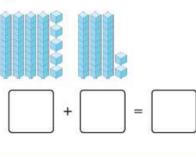
Section 8

eleven	
sixteen	
nineteen	

Section 1 Write an addition number sentence which is represented by the dienes.	Section 2 How long is the peg doll?	Section 3 Draw coins that add up to the price of the toy.	Section 4 Draw a triangle using a ruler.
Section 5 Billy and Kamil equally share 16 conkers. How many conkers will they each have?	Section 6 Draw lines to show the pizza cut equally into quarters.	Section 7 Using these numbers, write an addition and a subtraction number statement. 18 8 10	Section 8 Write the numbers below as numerals: eleven sixteen nineteen

Section 1

Write an addition number sentence which is represented by the dienes.





Section 3

Draw coins that add up to the price of the toy.



Section 4

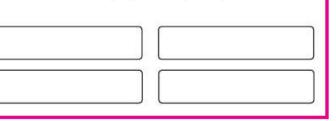
Draw a rectangle using a ruler. Then write one fact about rectangles.

Section 5	Section 6
There are 25 conkers. Five friends share them equally. How many will they each have?	If a pizza is cut into quarters, how many people could have one quarter each?

Section 7

Using these numbers, write 2 addition number statements and two subtraction number statements.

23 36 13



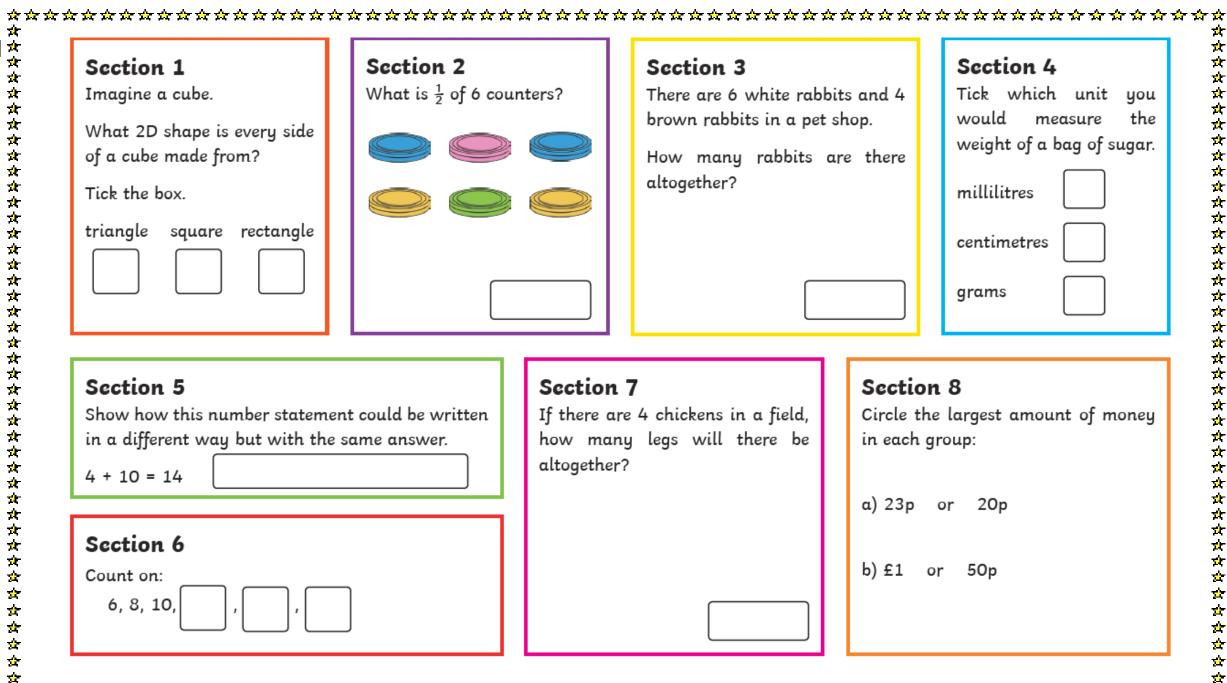
Section 8

Write the numbers below as numerals:

thirty-four

twenty-two

fifty-three



********************* Section 1 Section 2 Section 3 Section 4 What is $\frac{1}{4}$ of 8 counters? Imagine a cylinder. There are 2 hamsters, 4 rabbits Tick which unit you and 3 chinchillas in a pet shop. would the measure What 2D shape is at each height of a tree in. end of a cylinder? Write a number sentence to work out how many animals there are Draw the shape here. metres altogether. millimetres

Section 5

Show how these numbers can be written as a subtraction number sentence.

20 + 4 = 24

Section 6

Count on:



Section 7 If there are 5 sheep in a field, how many legs will there be altogether?	

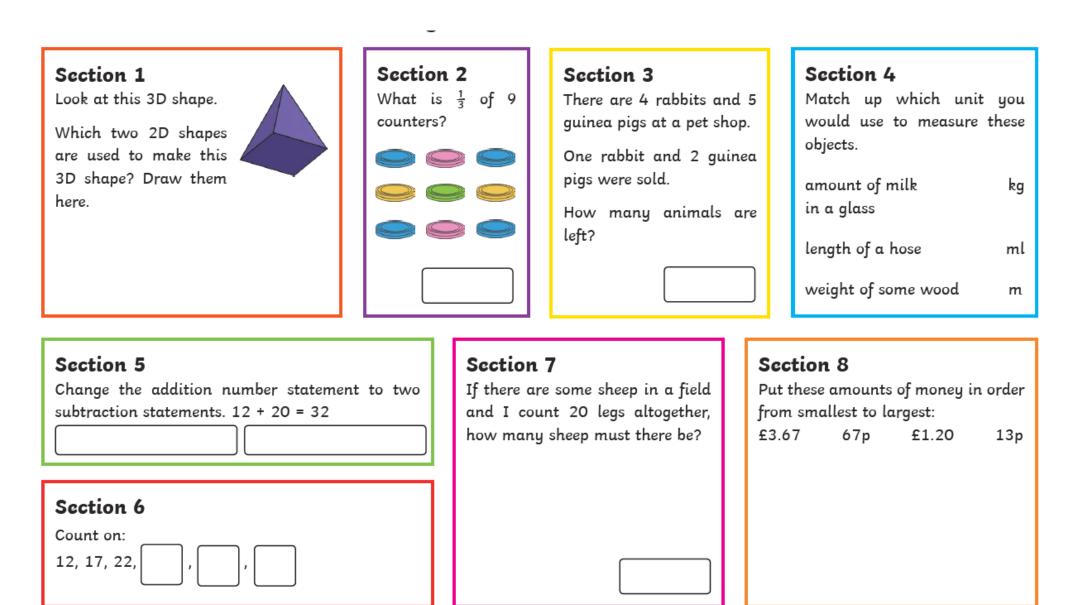
Section 8

Circle the largest amount of money in each group:

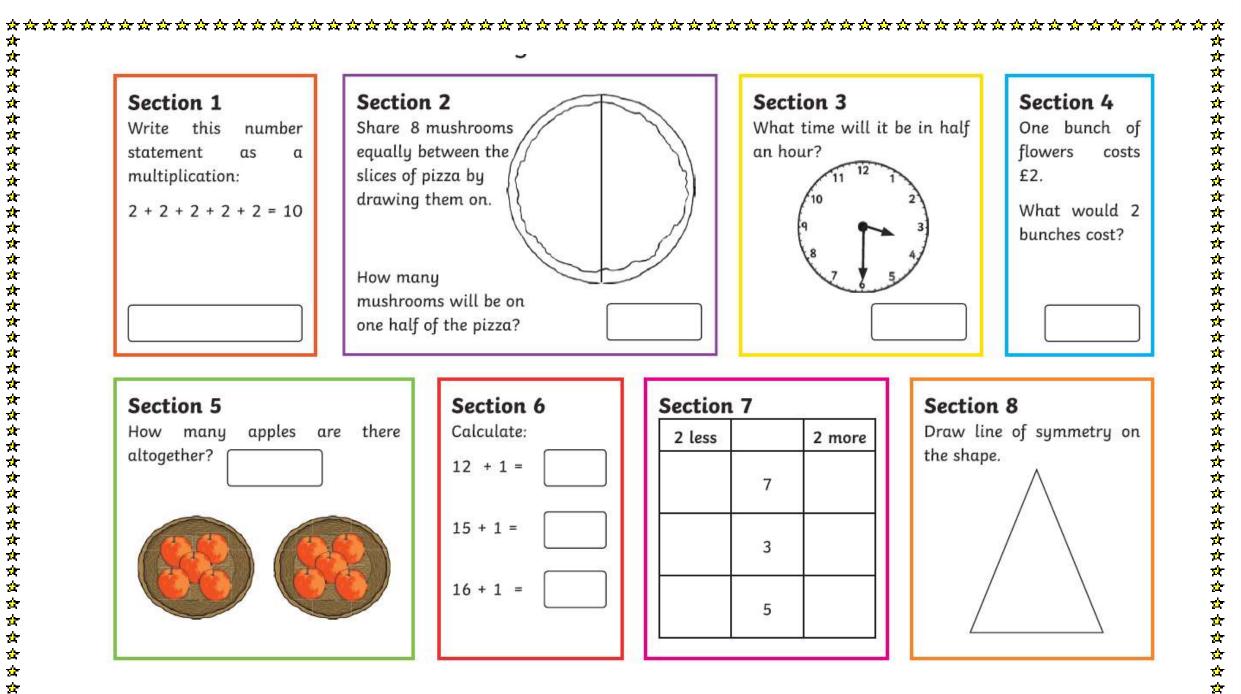
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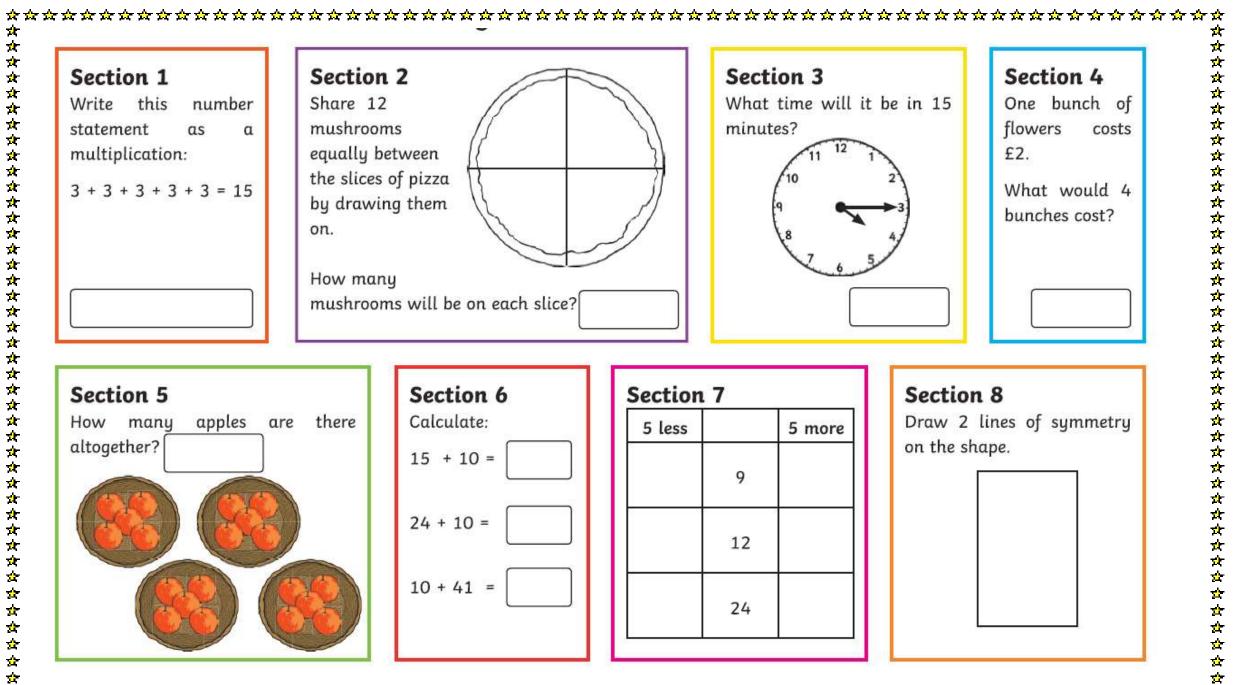
a) £1.20 or £20.10

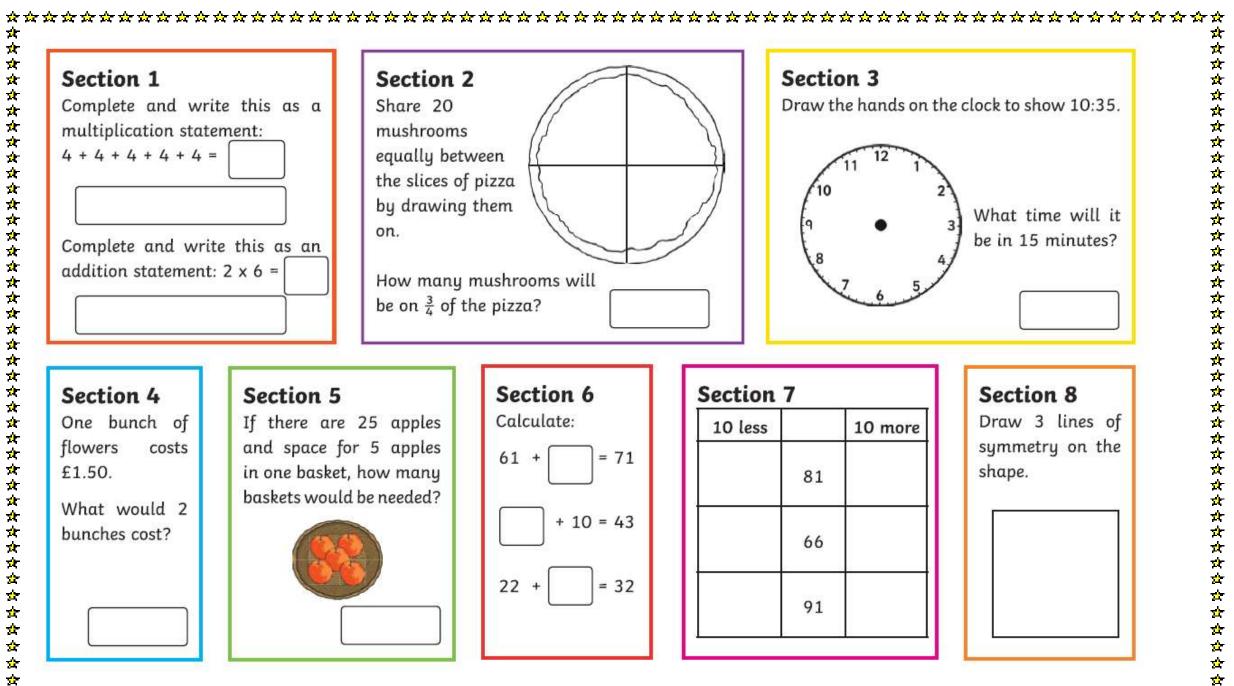
b)35p or 53p

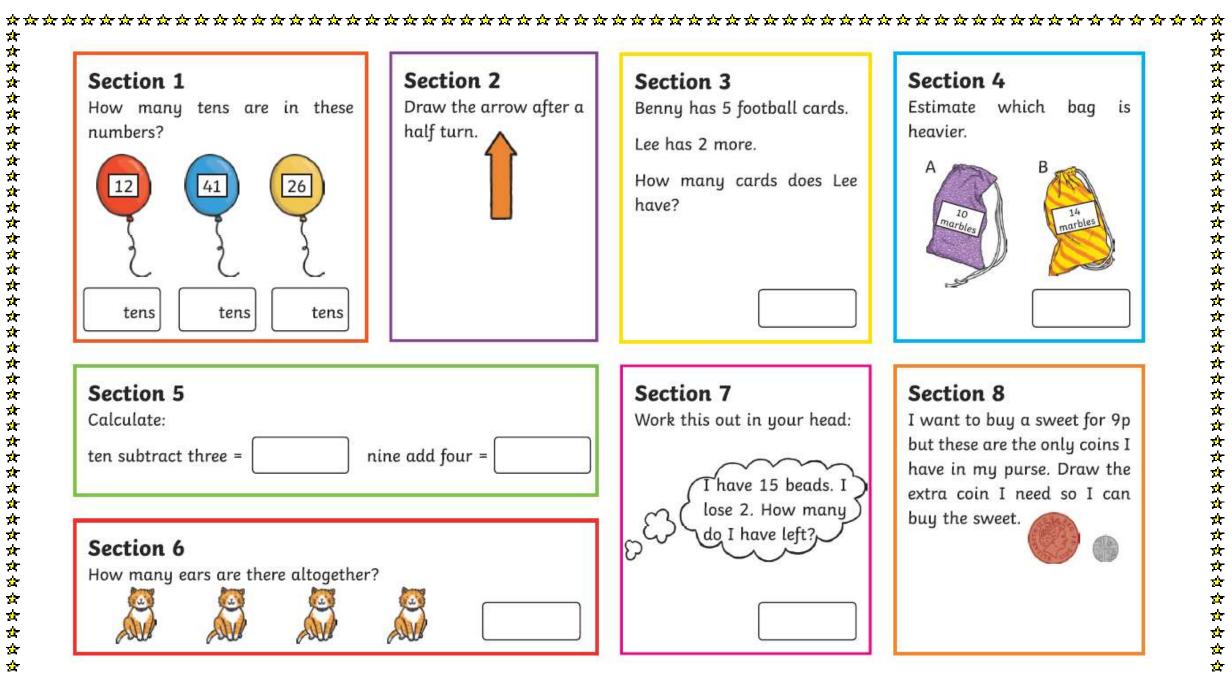


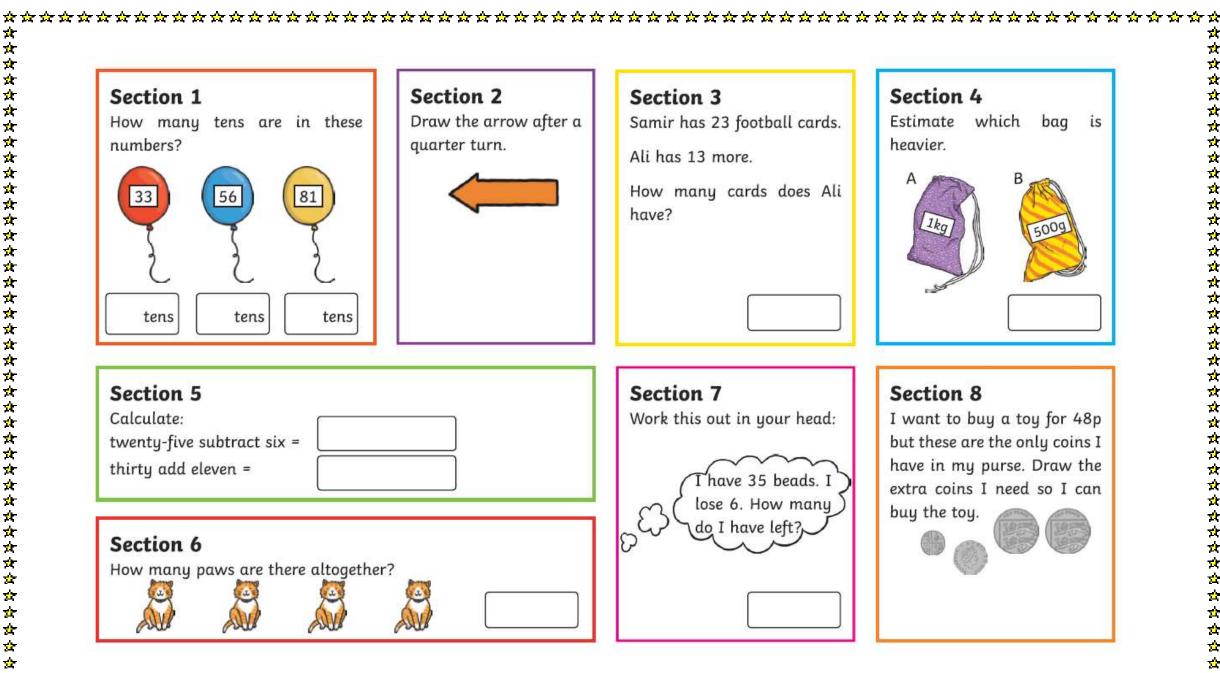
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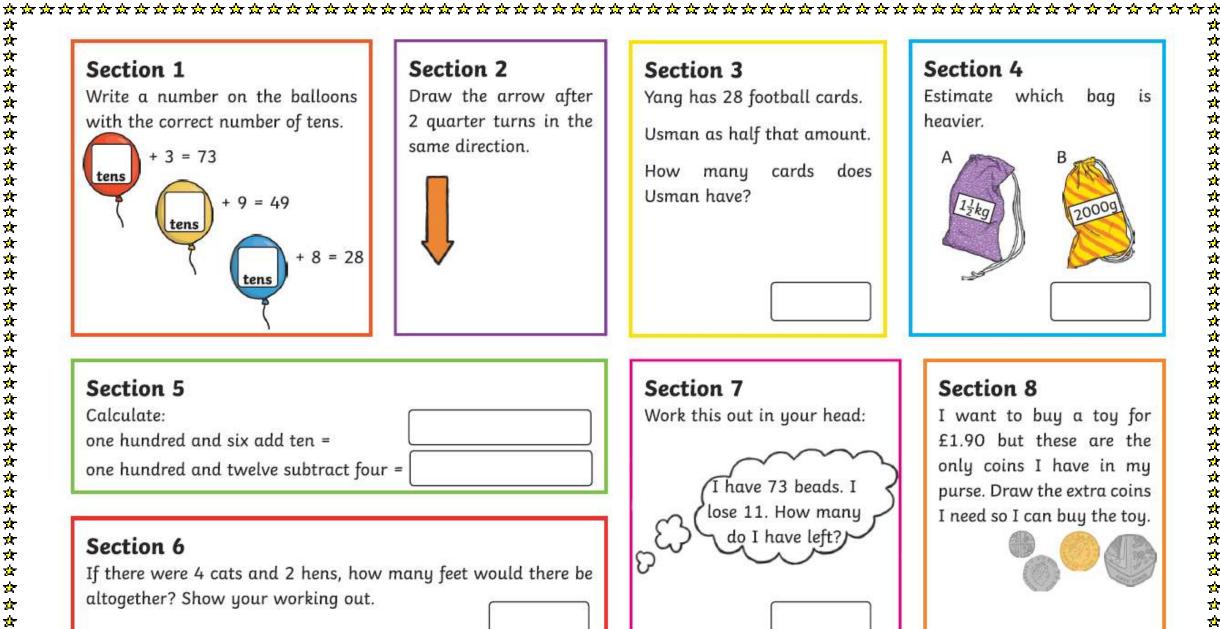












The questions on the following pages are more challenging.

If you are struggling to explain a certain concept e.g. properties of shape, there are a wealth of internet resources to help and lots of powerpoints which guide you through and explain how we introduce a topic. There are also lots of educational videos that may be useful to watch. (Twinkl, white Rose and Top Marks are regularly used as an additional resource at school)

Also, there is a wealth of interactive games covering all of the topics we cover at school.

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-	www.dmgenbux.com
	Bee Bot App for Computing (Free App)
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	Times Table Rockstars (Paid App or Free with School Subscription)
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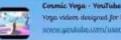
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Smilling Mind Short audio sessions to help with mindfulness the //opp.anutrymint.com



Yoga videos designed for kids aged 3+ www.umulaha.com/user/CounteRubi/ingo

BBC Separativers

Interactive videos to suggest with KS7 and XS1 Matha, Literaci and PSHE and PE learning. Great for times tablesvideos that are just for furt. www.tibc.or.iik/tench/supermover

Go Noodle-YouTube (More videos on their own website) Hundrets of 'brainertise', doncing, strength and mindfulness videon-as well as videos that are just for fast arere/ unitable.com/user/GoNocdieGames/Jeatured

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Reeping children up to data with the world pround themcreating opportunities to talk about the news with children. www.bhc.oz.uk/newurzund

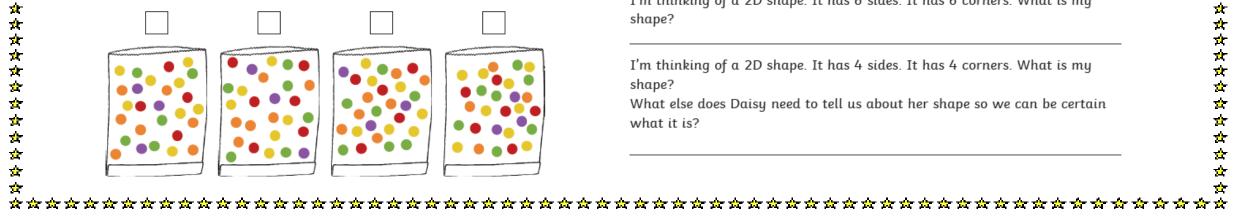
Missing Number	33 + 6 =
Fill in the missing number:	30 + 20 =
2 + 5 + 8 =	47 - 5 =
6 + 3 + 4 =	20 + = 40
9 + 9 + 1 =	90 = 40

Tally Chart

This tally chart shows the different colours in a bag of sweets. Fill in the missing boxes:

Colour	Tally	Number
red		4
green		5
orange	un II	
yellow		8
purple		

Which bag shows the sweets in the tally chart? Tick one.



ich is the least common colour?
v many more yellow sweets are there than purple sweets?
v many sweets are in the packet altogether?
ıpes
ich are correct? A cylinder has a curved face.
A cylinder has four vertices.
A cylinder has six faces.
A cylinder has two circular faces. Answer:
at Shape am I Thinking of? thinking of a 2D shape. It has 6 sides. It has 6 corners. What is my pe?
thinking of a 2D shape. It has 4 sides. It has 4 corners. What is my pe?
at else does Daisy need to tell us about her shape so we can be certa 1t it is?

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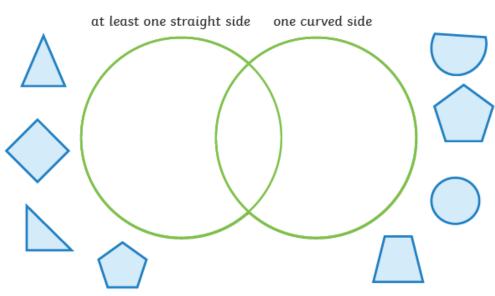
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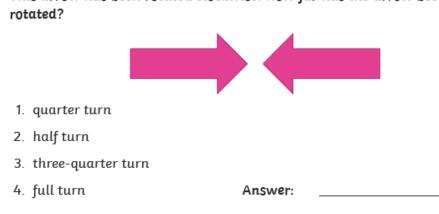
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Shape Sorting Sort these shapes into the Venn diagram:



Rotation



This arrow has been rotated clockwise. How far has the arrow been

Word Problems

Bruno the dog, has 23 biscuits in his treat box. His owner gives him 8. How many biscuits are left in the box?

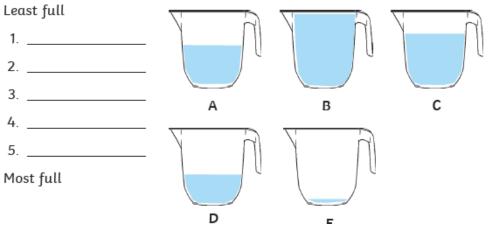
Priya bakes some cakes for the summer fair. She sells 14. She has 10 left over. How many cakes did she bake?

There are 8 passengers on the bus. At the first stop, 3 more get on. At the second stop 2 more get on. How many passengers are on the bus now?

There are 28 children in Class 2. At playtime, 12 children choose to play football. How many children do not play football?

Order

Put these jugs in order from least full to most full:



Temperature

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☆ 文 What is the temperature on the thermometers below?

°C °C 70 50 30 20 10 n n -10 20 -30 -40 -50 -60 -70 -80 .90 -273 Order shortest Order these times from shortest to longest: half an hour 2. 60 minutes 2 hours 4 45 minutes longest

Word Problems

Nate is doing a maths quiz. He starts the quiz at half past nine and finishes at 10 o'clock. It takes him 2 minutes to answer each question. How many questions does he answer?

Missing Number

Fill in the missing number:

45 + 32 = ____ 52 + 37 = ____ 28 + 35 =

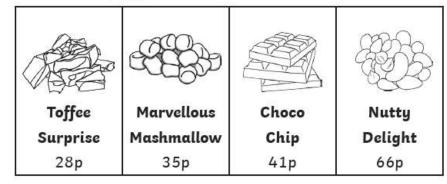
Fill in the missing number:

57 = 50 + 40 + 30 +

+ 37 10 +

Marvellous Milkshakes

Here are the prices of some different milkshake flavours in the shops. Draw two different combinations of coins you could use to pay for each one.



Toffee Surprise

Marvellous Marshmallow

Choco Chip

Nutty Delight



How Many Jelly Beans?

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Jack buys a packet of coloured jelly beans. He empties them into a bowl and counts the different colours. He starts to make a tally chart. Complete Jack's tally chart.

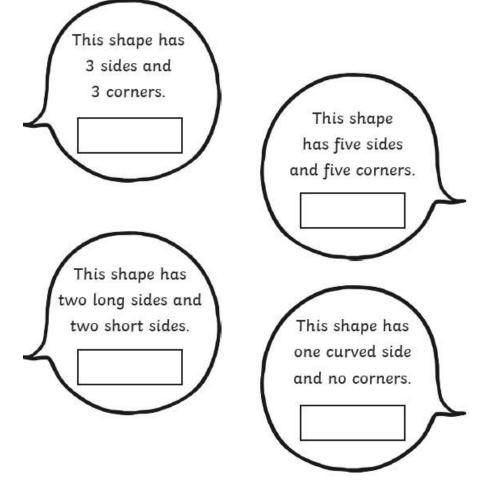
Colours	Tally	Number
Yellow		3
Pink	1111	
Purple	111	
Orange	П	
Brown		6
Green		1

- 1. How many pink jelly beans were there?
- 2. How many more purple jelly beans than green jelly beans were there?
- 3. Which colour had the most jelly beans?
- 4. How many jelly beans were in the packet altogether?

Spring Time Draw hands on these clocks to show the correct times. 6 o'clock twenty past 7 quarter past 8 5 to 3 half past 1 quarter to 9 25 to 5 12 o'clock 10 past 10

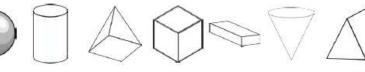
Spring Shapes

Ava wants to decorate her Spring card with 2D shapes. She describes the shapes she wants and asks her friend to find them for her. Which shapes is she describing?



Flower Boxes

Abbie decided to make different-shaped boxes to put her spring flowers in this year. She describes which box she is giving to each of her friends and family. Write the name of the shape next to each person.



sphere cylinder

cuboid squarecube based pyramid

triangular cone prism

Mum	"Mum's box will have two faces and one point. One of the faces is a circle."	
Dad	"Dad's box will have six square faces and 8 vertices."	
Grandad	"Grandad's box will have no edges and no vertices."	
Little brother	"My little brother's box will have 5 faces. 3 of the faces are rectangles and two are triangles."	
Best friend	"My best friend's box will have three faces and no vertices."	

Spring Puzzles

1. James has 20 daffodils. He gives 11 of them away. How many does he have left?

- 2. Sam picks some flowers. He gives half of them to his mum. He has 8 flowers left. How many flowers did he pick?
- 3. A shop sells these Spring treats:





Maisie spends exactly 20p on treats.

Tick the selection of treats that she buys.



Spring Puzzles

1. Max is packing up cakes for the Spring fair. He puts two cakes in each bag. How many cakes are there altogether?



2. Mo is decorating cakes for the fair. He wants to put 3 chocolate buttons on each cake. How many buttons will he need?



- 3. Mina plants some carrots for her rabbit. She plants 5 rows with 4 carrots in each. When the carrots have grown, she pulls up 3 to give to her rabbit. How many carrots are left?
- 4. Joe wants to give some flowers to his mum, his gran and his aunt. He wants to give them 5 flowers each. Tick two number sentences he could use to work out how many flowers he needs altogether.

3 x 5 5 + 5 + 5

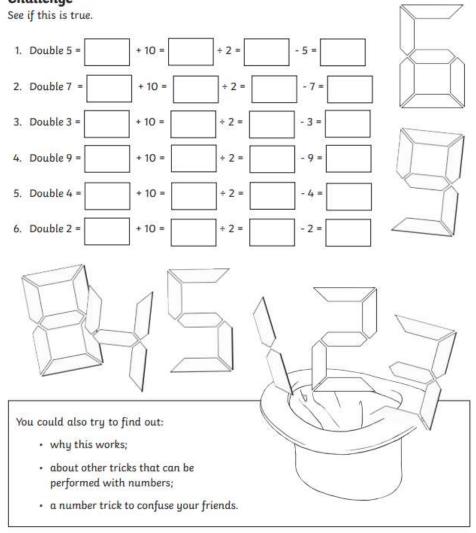
5 x 5 3 + 3 + 3

Amazing Fact

If you take any number, double it, add 10, divide by 2 and subtract your original number, the answer will always be 5.

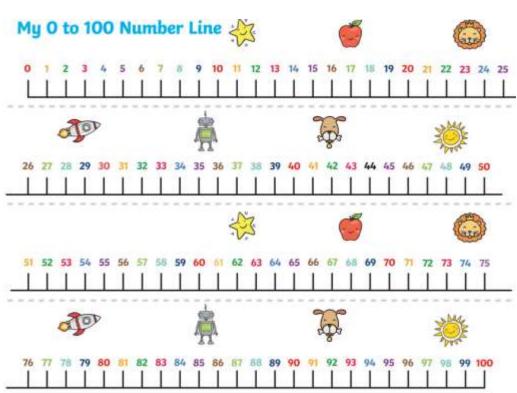
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51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



If you search Twinkl website you will find a large variety of colourful resources, like the ones above to print and cut out.

There are lots of videos online on how to effectively use these resources, if you are not sure.