January 2021 wk 1 SEND HOME LEARNING ACTIVITIES (3)

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

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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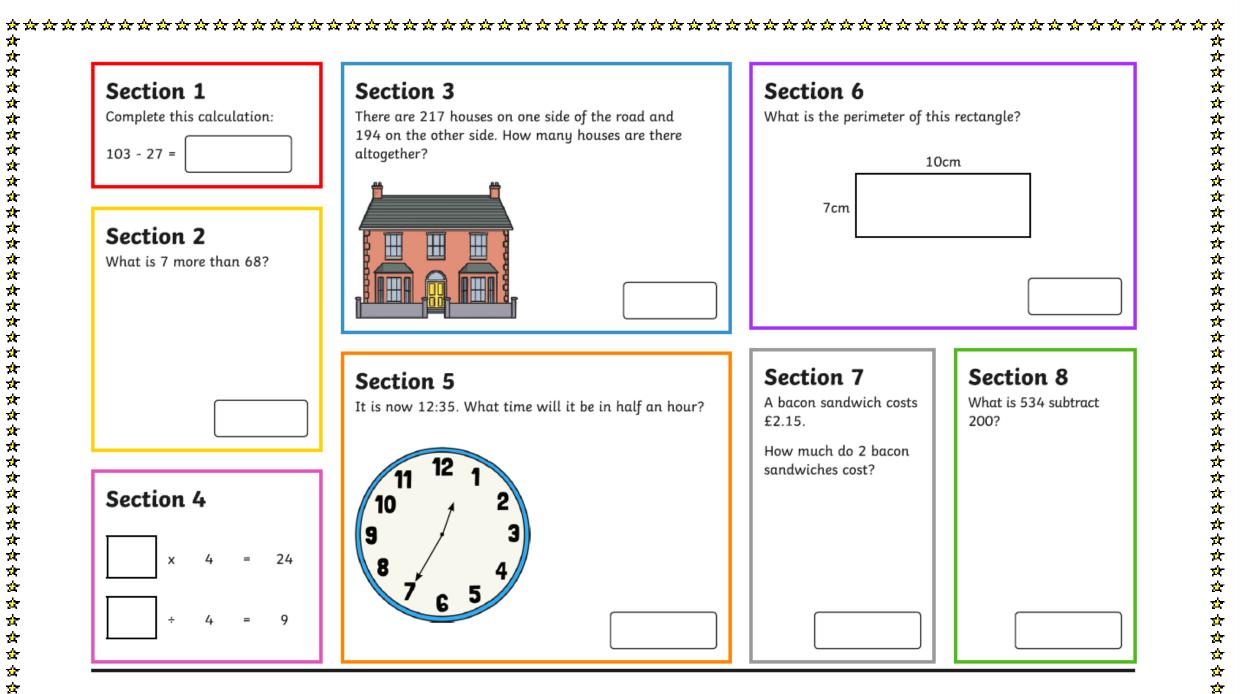
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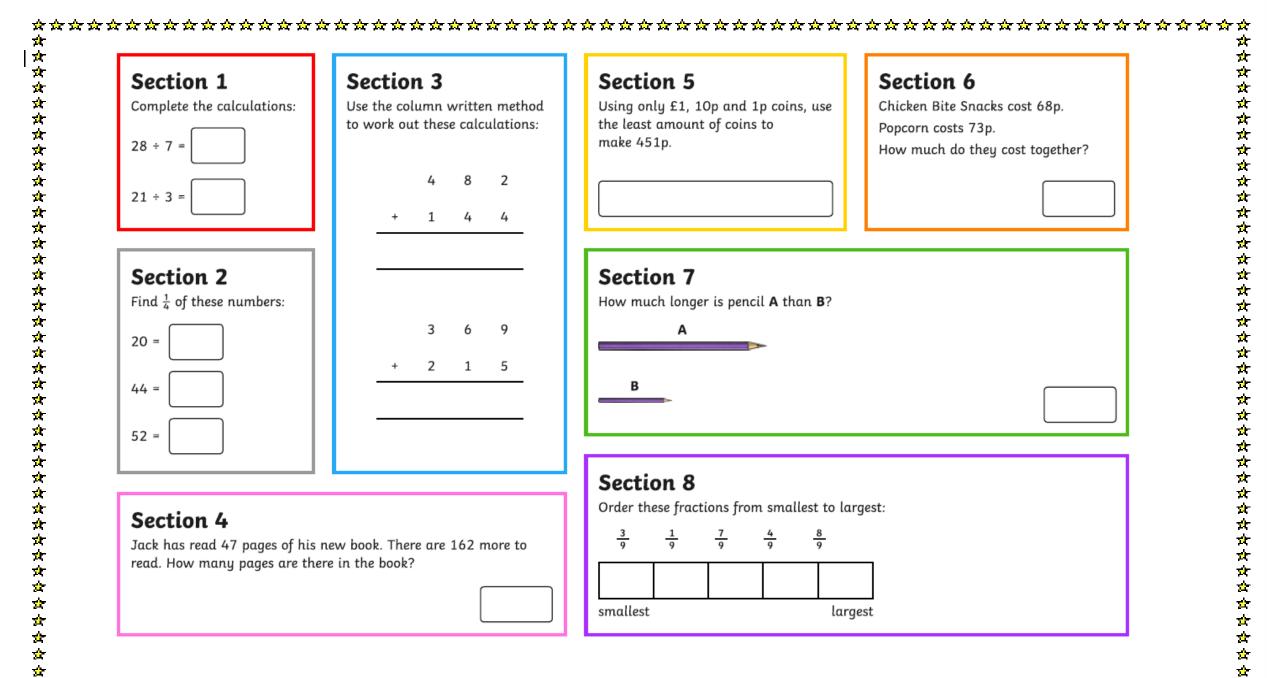
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ጵ ጵ ጵ All of the activities in the following pages cover a wide range of objectives. It would be useful to re-write each activity onto A4 paper and **adapt** the tasks to suit. There are progressively more challenging activities towards the end of this document. Where possible, use resources to help. Making the maths 'real' will be much more memorable and fun for the child. 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.

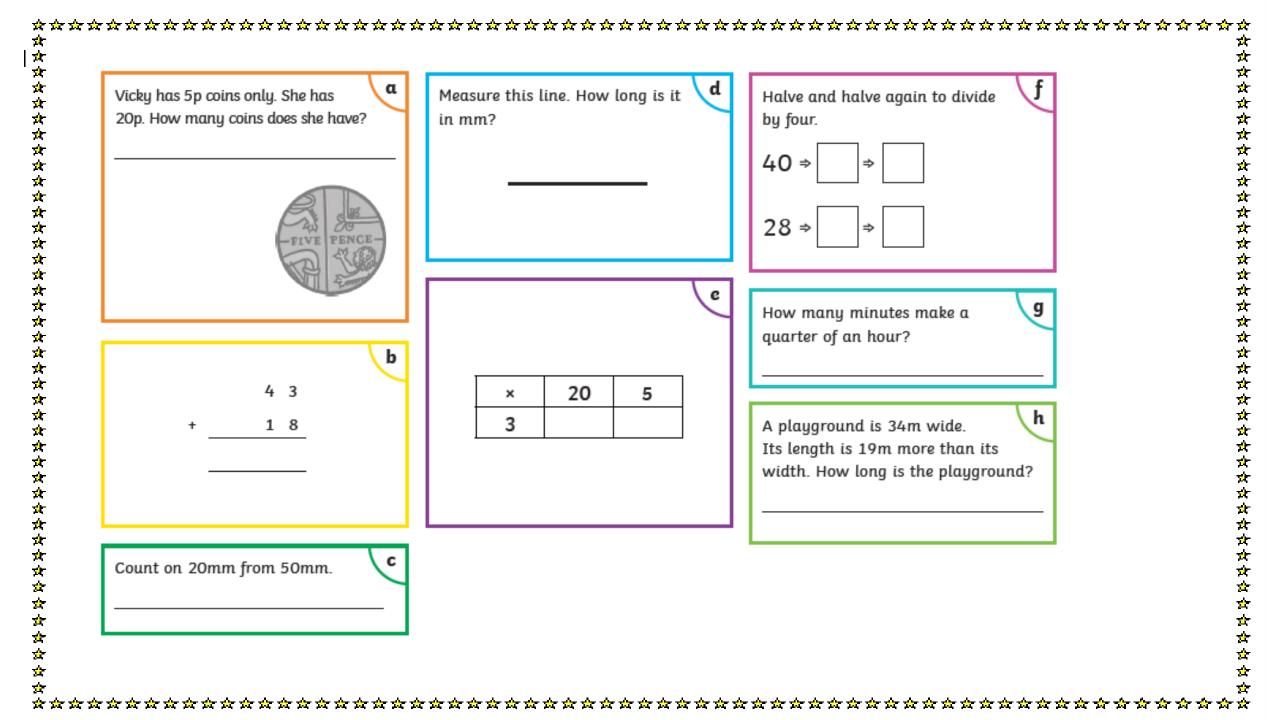
Section 1 Draw an arrow pointing to 5kg 250g.	Section 3 One pencil costs 28p. What do 3 pencils cost?	Section 6 140 + 20 + 20 =			
I t I t I t I t I t I t I t I t	Section 4 What fraction is coloured in?	Section 7 Multiply the two bottom numbers to find the missing number.			
Section 2 Complete this calculation:		12 3			
8 9 	Section 5 Measure this with your ruler. How long is it in mm?	Section 8 Start at 126. Count on 30. What is your answer?			

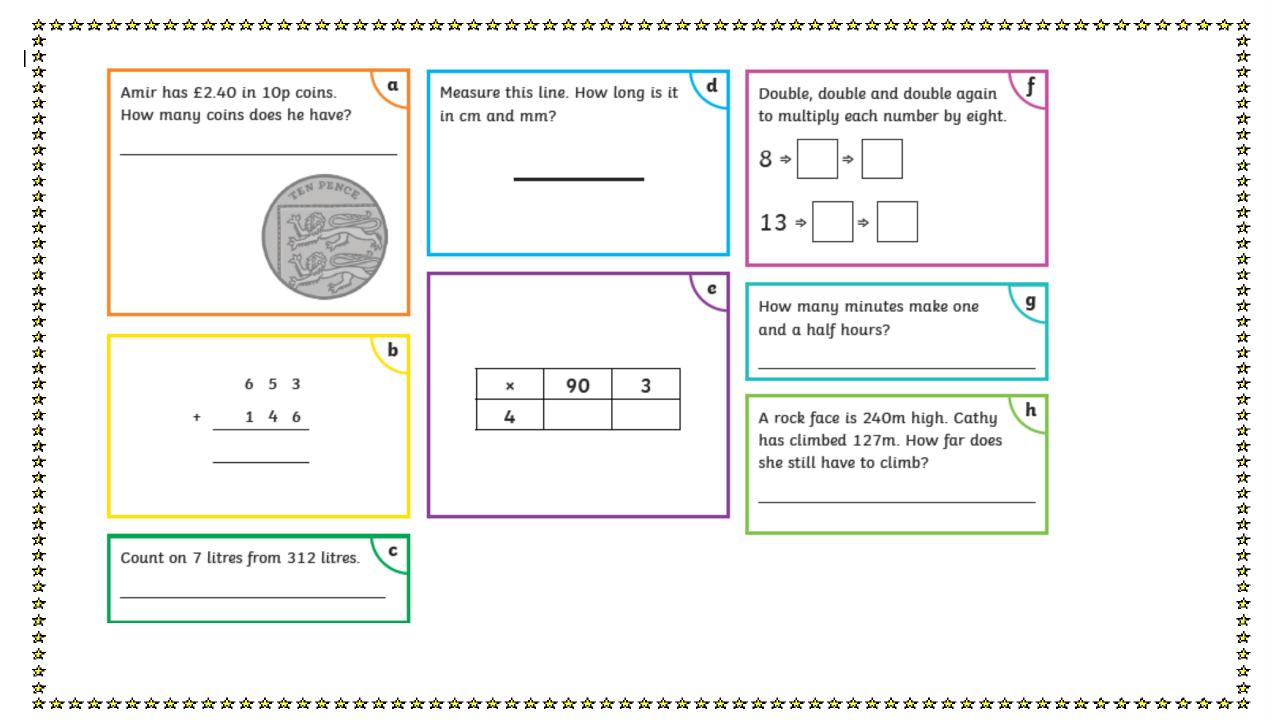


Section 1 Draw a shape with a ruler.	Section 3 Order these numbers smallest to largest:	Section 4 Write the multiple of 4 that c
Make sure it has at least 2 right angles and mark them on your shape.	118 810 108 138 218	these numbers: 24:
	smallest largest	36:
	Section 5	48:
	Write these numbers in words:	
	132:	Section 6
	471:	There are 12 bottles of water How many packs would there were 48 bottles of water alto
	211:	number statement to show th
Section 2	Section 7	
If you double 233, the answer is:	Write 2 division facts using these numbers:	Section 8
	32 4 8	Cathy is a quarter of her siste
Then double the answer:		sister is 16. How old is Cathy

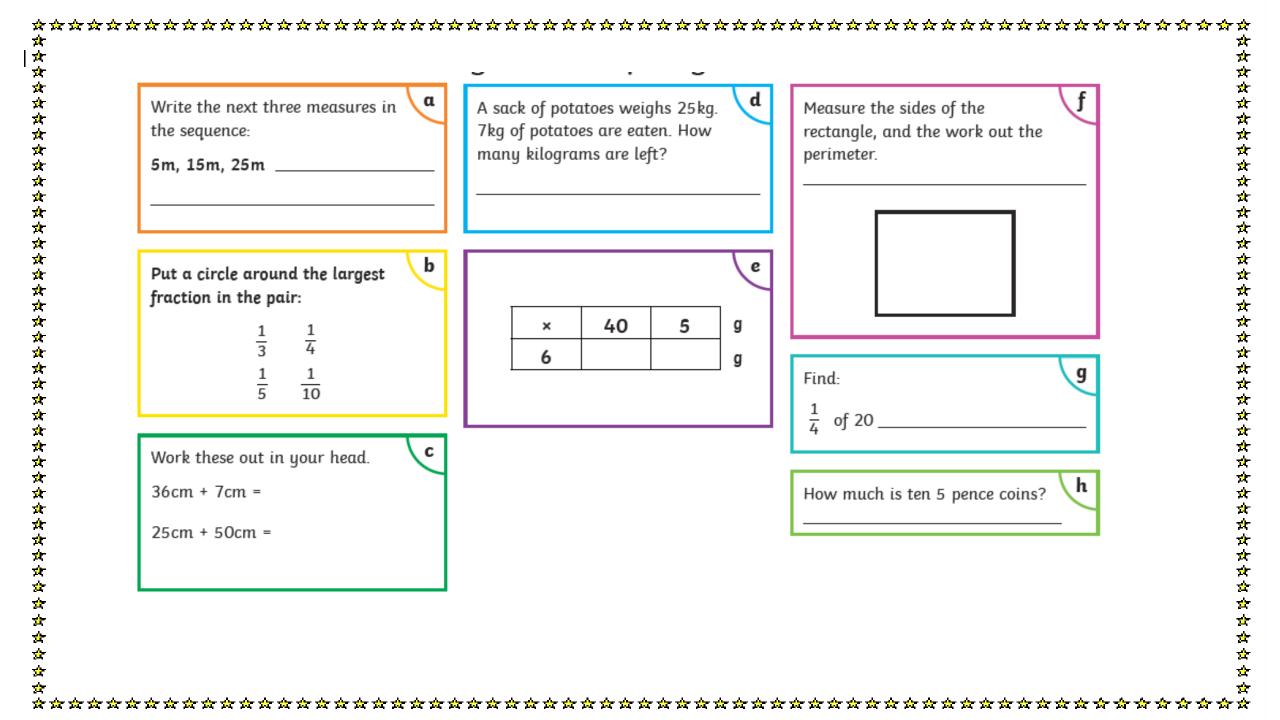


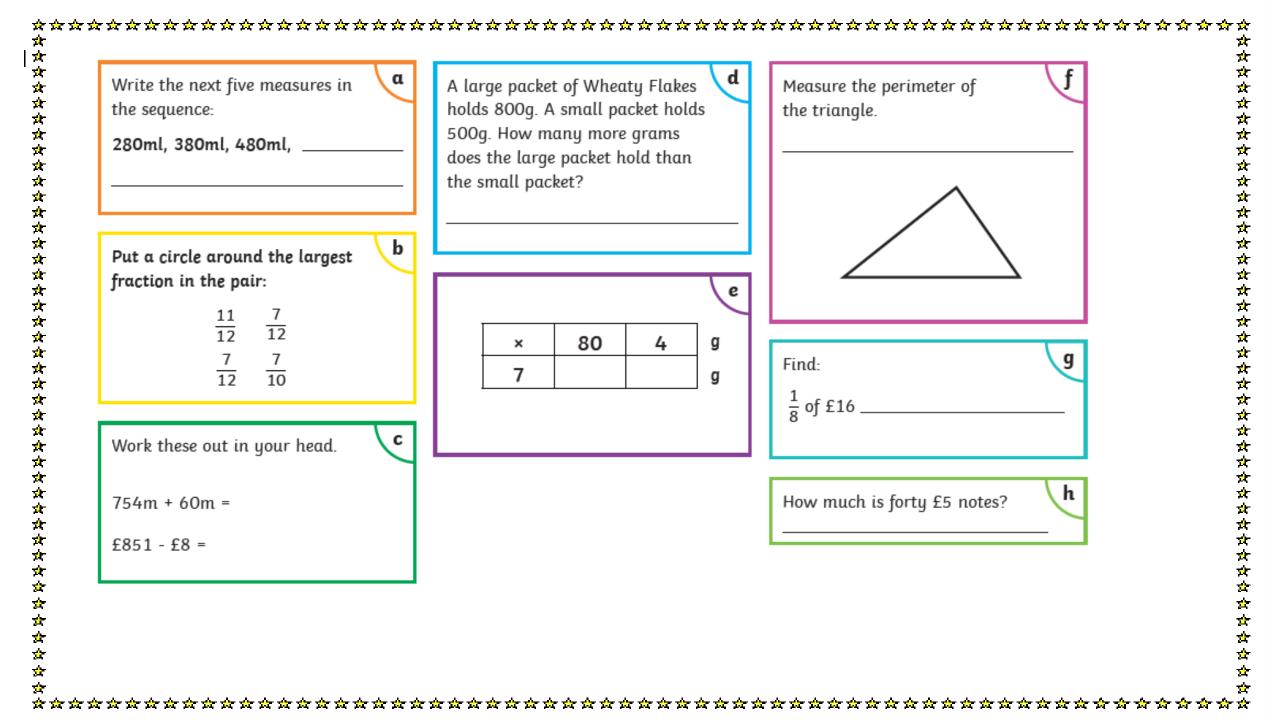
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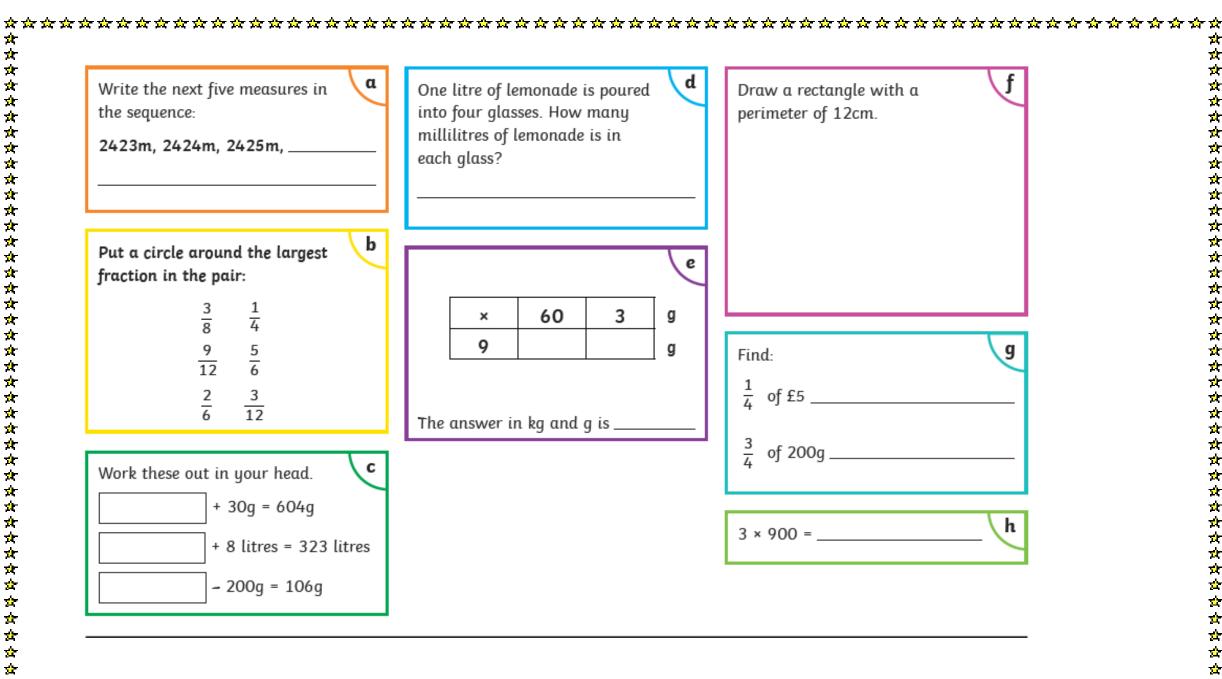




Emma has seven 50p coins. How much money does she have altogether?	Draw a line that is 4.7cm long.	Work out the calculation below using doubling. 20 × 6
ELETY PENCE	Complete the calculation using a formal written method.	 20 × 12
6 8 4 + <u>7 5 9</u>	43 × 8	How many hours are 300 g minutes?
Count on 8km from 3615km.		A corridor is 52m 30cm long. 29m 64cm of its length has been painted. How long is the part of the corridor that has not been painted?







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You will need...

- The Snakes and Ladders Board Game board
- A dice

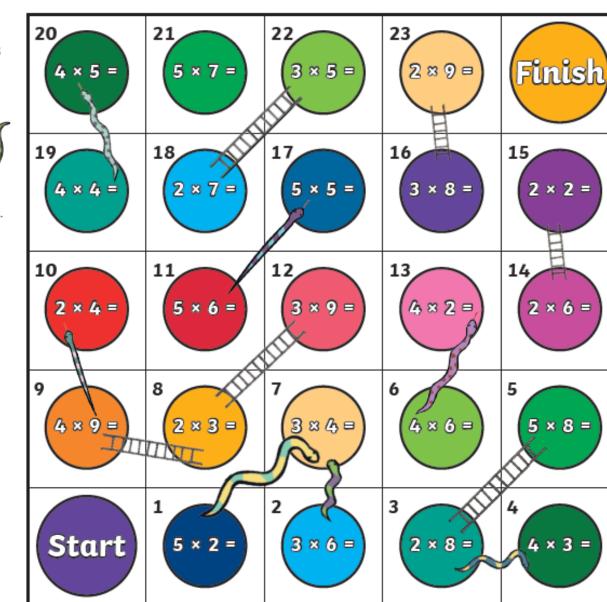
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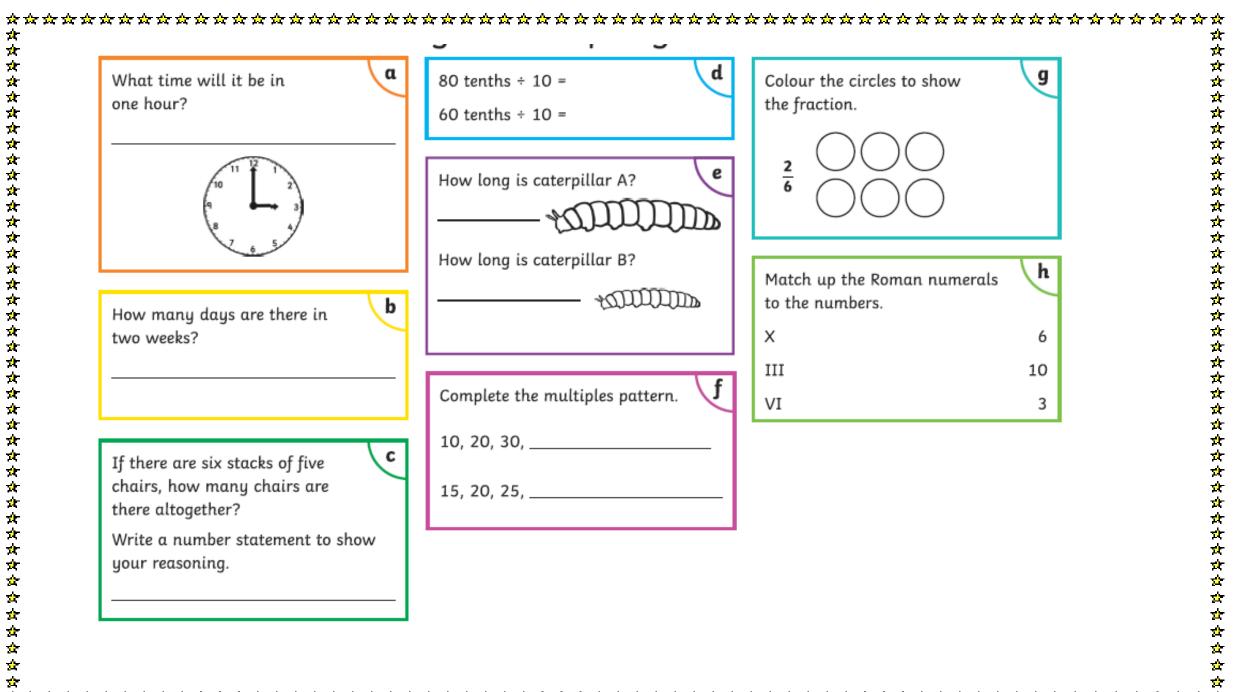
 A counter per player

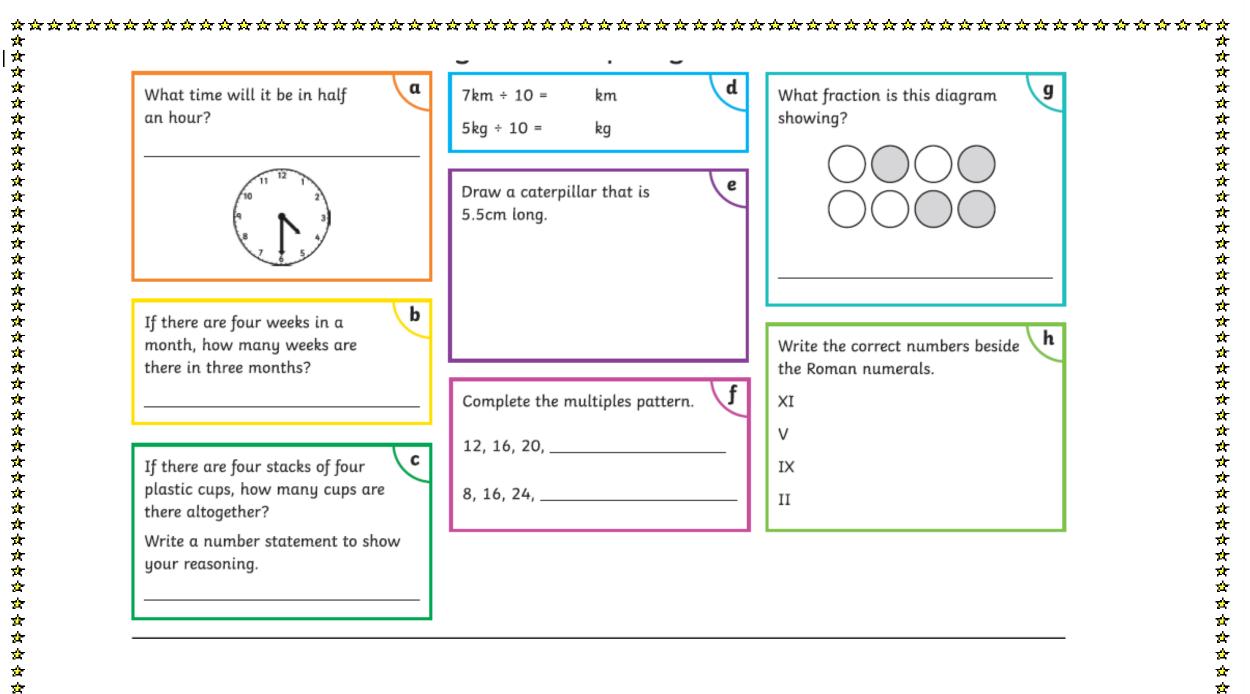
How to play...

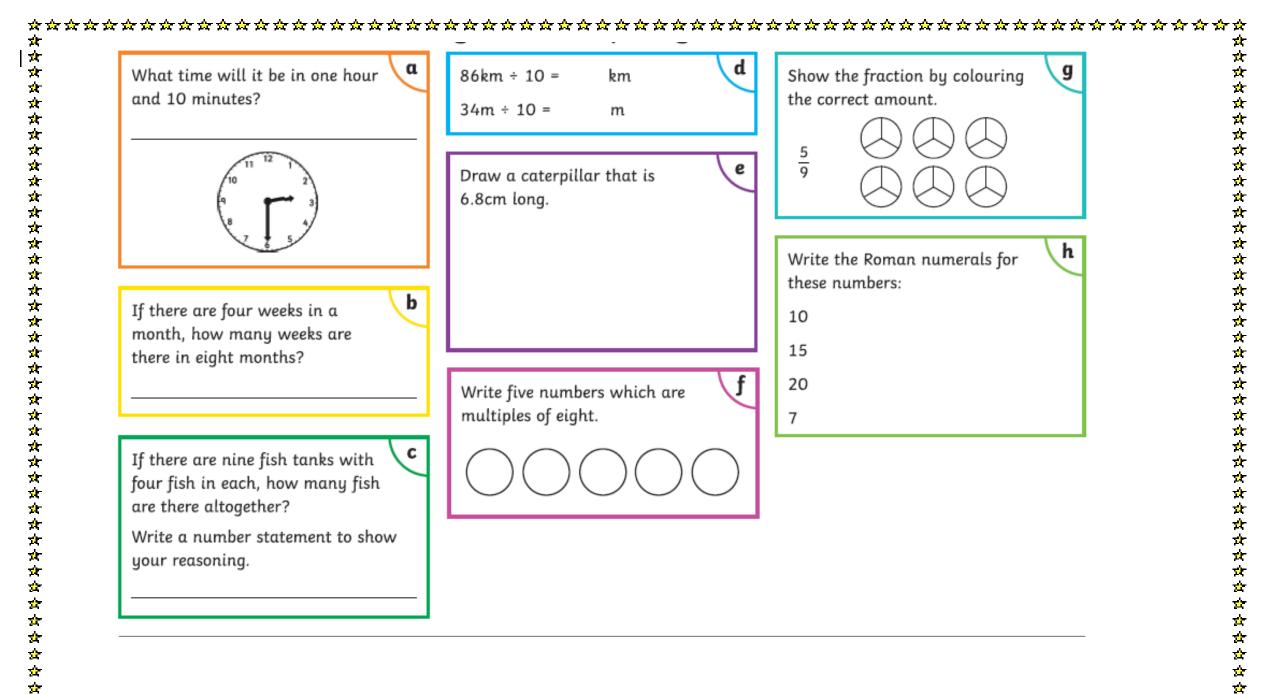
- Players take it in turns to roll the dice. The player with the highest number goes first, the player with the second highest goes second and so on.
- When it's their turn, players move the counter the number of spaces shown on the dice and answer the calculation they land on.
- If the answer given to the calculation is correct, play continues as usual:
 - landing on a snake's head the player's counter slides down;
 - landing at the bottom of a ladder
 the player's counter climbs up.
- If the answer given to the calculation is incorrect, the player misses a go.
- The first player to reach the finish is the winner!

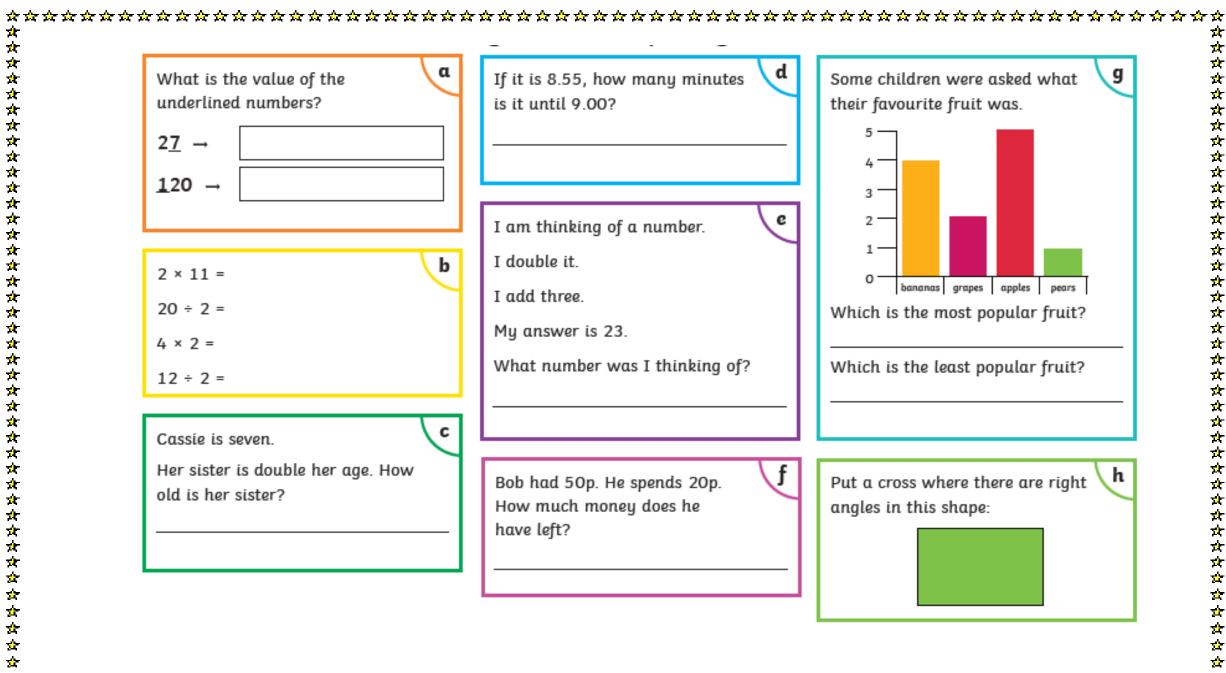


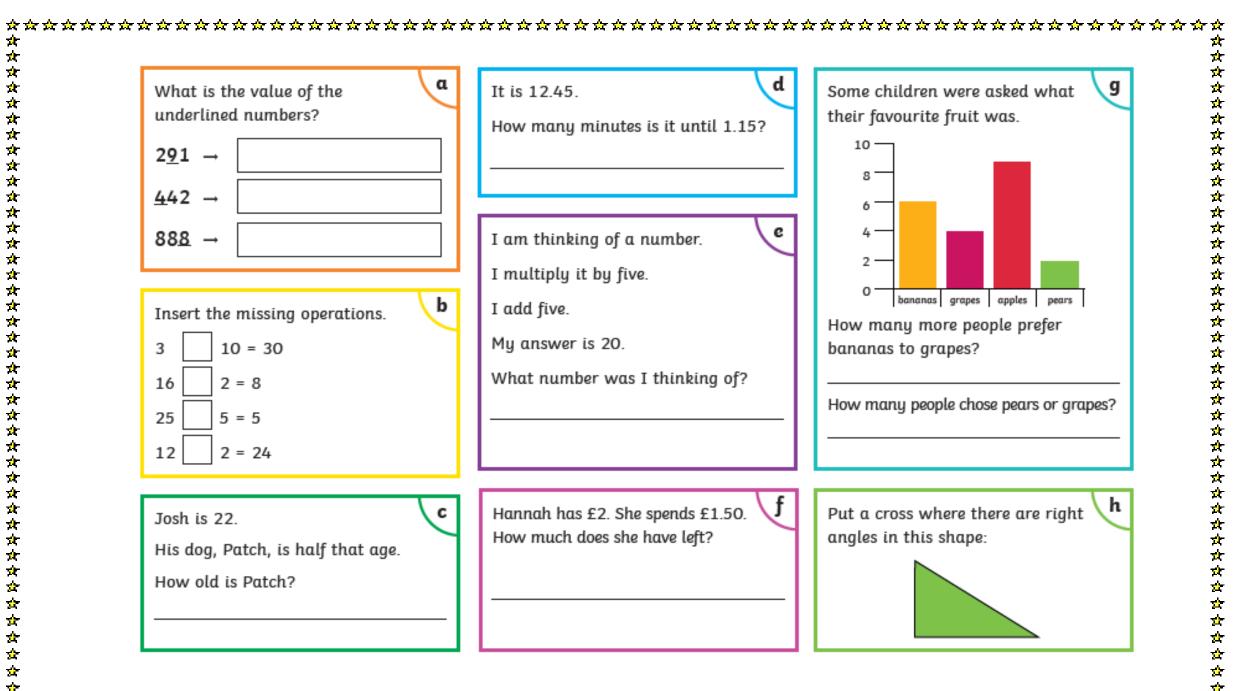
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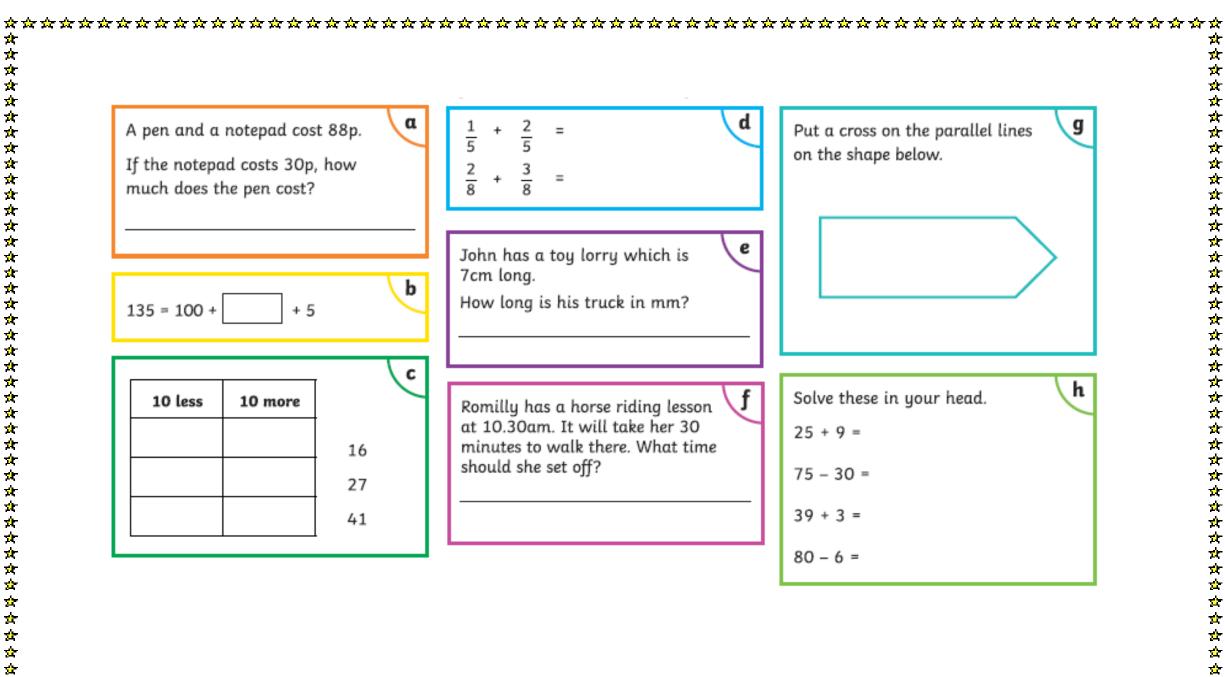








***** ****************** *** d α g What is the value of the It is 3.22. Some children were asked what underlined numbers? their favourite fruit was. **************** How many minutes is it until 4.00? 8-3199 → 6 -2<u>0</u>18 → 4 е 22<u>2</u>2 → 2 -I am thinking of a number. 0. I half it. bananas grapes apples pears b I add ten. Use the following numbers to Which is the most popular fruit? write four number statements I divide it by two. using × and ÷. 35, 5 and 7. My answer is 20. What number was What is the difference between the I thinking of? most and least popular fruit? h Jim has £5. Draw a shape with at least two He buys a drink for 35p and a right angles. С bag of crisps for 28p. How much Jack is ten. His Dad is three money does he have left? times Jack's age. How old is Dad? ጵ ጵ ¢ ☆ ☆ ☆ ☆ ☆ ☆ 岔



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か ******************************* d α g A sandwich and a bag of crisps Draw a shape with parallel lines. 5 $\frac{1}{7}$ ÷ cost £2.70. 3 8 If the bag of crisps cost 35p, how 9 9 much does the sandwich cost? 2 10 6 10 +е Max is 1.6m tall. b James is 156cm tall. 988 = + 80 + Who is taller and by how much? h Solve these in your head. С 82 + 20 = 100 less 100 more Tess has a dancing class at 270 90 - 46 =2.15pm. It finishes at 3.30pm. How long does her dance class last? 401 31 + 39 = 719 94 - 21 =

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****** d α g A sausage sandwich costs twice Draw a shape with parallel $\frac{4}{10}$ 2 10 $=\frac{11}{10}$ lines and at least one as much as a cheese sandwich. A perpendicular line. $\frac{3}{7} + \frac{3}{7} = 1$ cheese sandwich costs £1.84. + How much does a sausage sandwich cost? е Strips of guttering are sold in 4m strips. Frank's house needs 710cm of guttering. How many strips does he need to buy? b h 1028 =Solve these in your head. How much will he have left over? 20 + 60 + = 120 = 79 159 -С The winner in a race took one 31 + = 111 1000 less 1000 more hour and 42 minutes to complete it. The last person over the finish 1106 140 -= 70 line took two hours and 13 minutes. 2729 What is the difference in time between the first and the last runner? 4100

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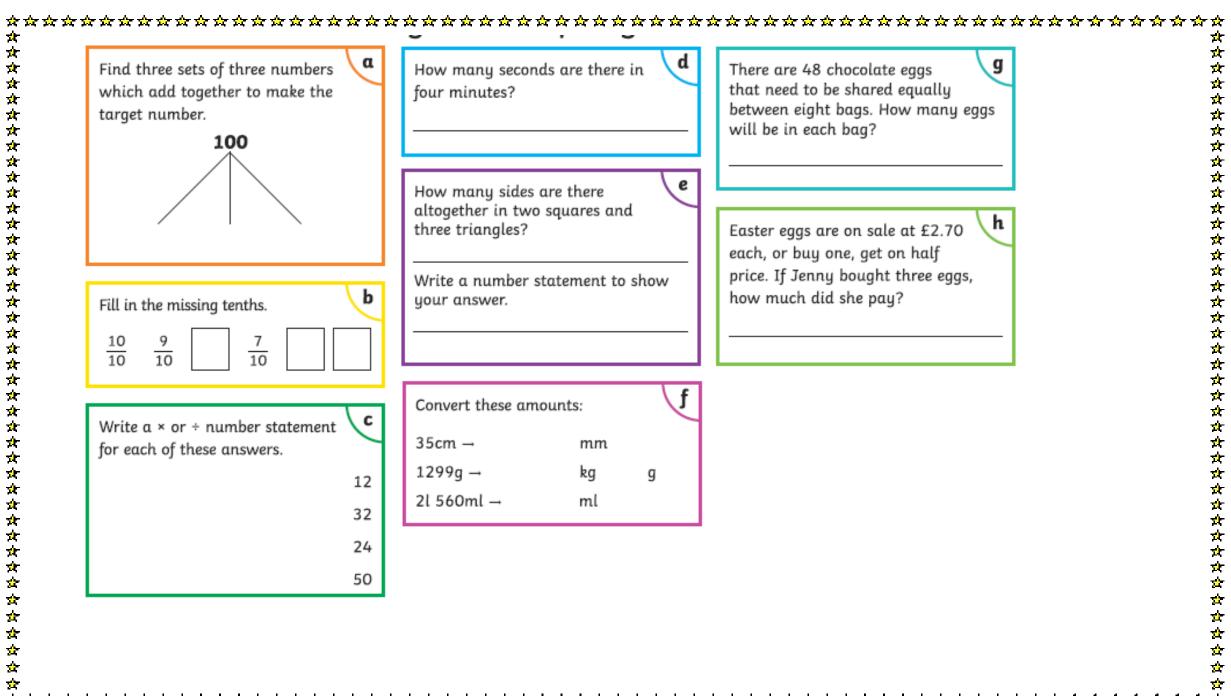
**** d α g Find three sets of three numbers How many minutes in one hour? There are 10 daffodils in one pot. How many daffodils are which add together to make the there in four pots? target number. 20 е How many sides are there altogether in two squares? h Easter eggs cost £1.30 each. How much would three eggs cost? Write a number statement to show your answer. b Fill in the missing tenths. $\frac{1}{10}$ 2 10 4 How many millimetres are in 8cm? С Match the number statements How many kilograms are in with the correct answer. 2000 grams? 4×2 16 10 × 5 50 8 × 2 8

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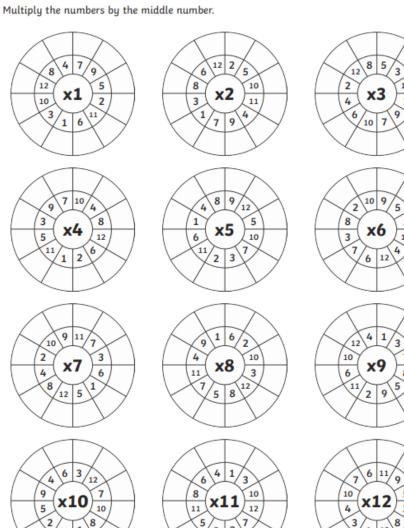
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Find three sets of three numbers which add together to make the target number.		How many minutes in two hours? d	A farmer has 30 sheep. Each sheep has two lambs. How many lambs are there altogether?
50		How many sides are there altogether in three triangles? Write a number statement to show	Easter eggs cost £2.25 each. How much would three eggs cost?
Fill in the missing tenths.	b	your answer.	
$\frac{3}{10}$ $\frac{6}{10}$	8 10	What is 1200ml in litres and ml? f	
Match the number statements with the correct answer.	c	What is 1016g in kg and g?	
24 ÷ 8	9		
4 × 7	64		
45 ÷ 5	3		
8 × 8	28		



Multiplication Square

×	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144



9 2

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5

3

8

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Multiplication Wheels

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1x table	2x table	3x table	4x table	5x table	6x table
1 × 1 = 1	1 × 2 = 2	1 × 3 = 3	1 × 4 = 4	1 × 5 = 5	1 × 6 = 6
2 × 1 = 2	2 × 2 = 4	2 × 3 = 6	2 × 4 = 8	2 × 5 = 10	2 × 6 = 12
3 × 1 = 3	3 × 2 = 6	3 × 3 = 9	3 × 4 = 12	3 × 5 = 15	3 × 6 = 18
4 × 1 = 4	4 × 2 = 8	4 × 3 = 12	4 × 4 = 16	4 × 5 = 20	4 × 6 = 24
5 × 1 = 5 6 × 1 = 6	5 × 2 = 10 6 × 2 = 12	5 × 3 = 15 6 × 3 = 18	5 × 4 = 20 6 × 4 = 24	5 × 5 = 25 6 × 5 = 30	5 × 6 = 30 6 × 6 = 36
0 × 1 = 0 7 × 1 = 7	0 × 2 = 12 7 × 2 = 14	0 × 3 = 18 7 × 3 = 21	0 × 4 = 24 7 × 4 = 28	0 × 5 = 30 7 × 5 = 35	0 × 0 = 30 7 × 6 = 42
8 × 1 = 8	8 × 2 = 16	8 × 3 = 24	8 × 4 = 32	8 × 5 = 40	8 × 6 = 48
9 × 1 = 9	9 × 2 = 18	9 × 3 = 27	9 × 4 = 36	9 × 5 = 45	9 × 6 = 54
10 × 1 = 10	10 × 2 = 20	10 × 3 = 30	10 × 4 = 40	10 × 5 = 50	10 × 6 = 60
11 × 1 = 11	11 × 2 = 22	11 × 3 = 33	11 × 4 = 44	11 × 5 = 55	11 × 6 = 66
12 × 1 = 12	12 × 2 = 24	12 × 3 = 36	12 × 4 = 48	12 × 5 = 60	12 × 6 = 72
7x table	8x table	9x table	10x table	11x table	12x table
1 × 7 = 7	1 × 8 = 8	1 × 9 = 9	1 × 10 = 10	1 × 11 = 11	1 × 12 = 12
1 × 7 = 7 2 × 7 = 14	1 × 8 = 8 2 × 8 = 16	2 × 9 = 18	1 × 10 = 10 2 × 10 = 20	1 × 11 = 11 2 × 11 = 22	1 × 12 = 12 2 × 12 = 24
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2 × 7 = 14 3 × 7 = 21 4 × 7 = 28 5 × 7 = 35 6 × 7 = 42	2 × 8 = 16 3 × 8 = 24 4 × 8 = 32 5 × 8 = 40 6 × 8 = 48	$2 \times 9 = 18$ $3 \times 9 = 27$ $4 \times 9 = 36$ $5 \times 9 = 45$ $6 \times 9 = 54$	$2 \times 10 = 20$ $3 \times 10 = 30$ $4 \times 10 = 40$ $5 \times 10 = 50$ $6 \times 10 = 60$	2 × 11 = 22 3 × 11 = 33 4 × 11 = 44 5 × 11 = 55 6 × 11 = 66	2 × 12 = 24 3 × 12 = 36 4 × 12 = 48 5 × 12 = 60 6 × 12 = 72
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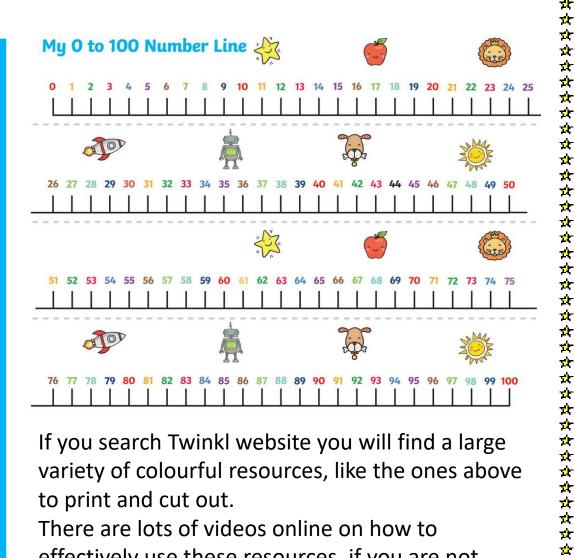
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11	12	13	14	15	16	17	18	19	20	
21	22	23	24	25	26	27	28	29	30	
31	32	33	34	35	36	37	38	39	40	
41	42	43	44	45	46	47	48	49	50	
51	52	53	54	55	56	57	58	59	60	
61	62	63	64	65	66	67	68	69	70	
71	72	73	74	75	76	77	78	79	80	
81	82	83	84	85	86	87	88	89	90	
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.

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