

# Guidance for Macros in PowerPoints

We use macros within PowerPoints to increase the interactivity of our presentations. Follow this simple process to get the most out of this resource.

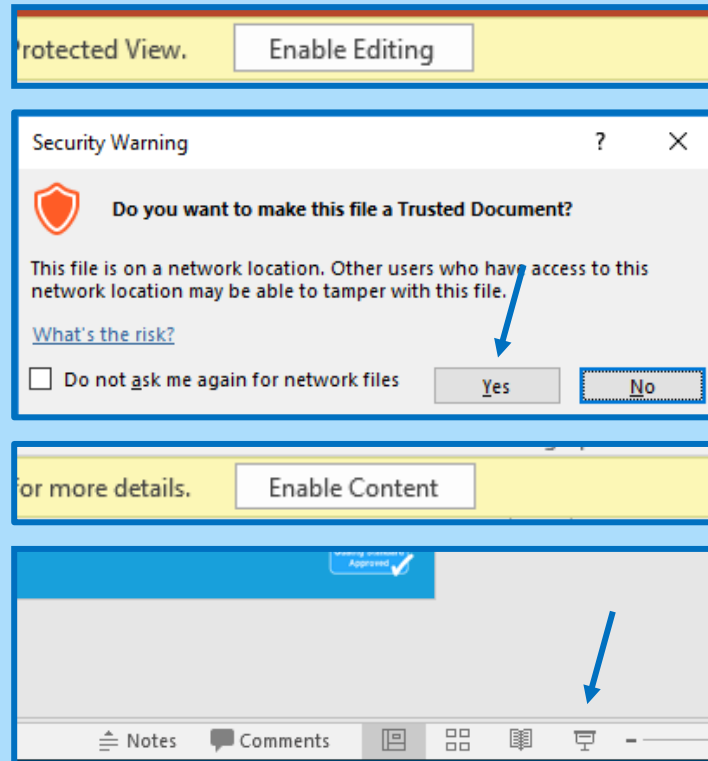
## What to do:

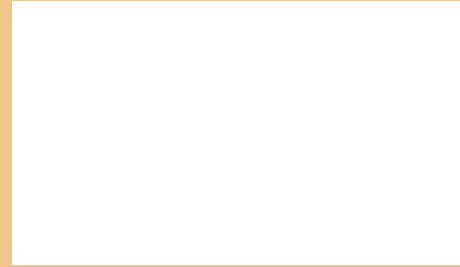
Open the PowerPoint file and enable editing.

A security warning box may appear. Click yes.

Click enable content.

Enter presentation mode (start the slide show).





# Maths

Multiplication and Division

# Multiplication and Division Starter Ideas

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# Multiplication Tables Loop Cards



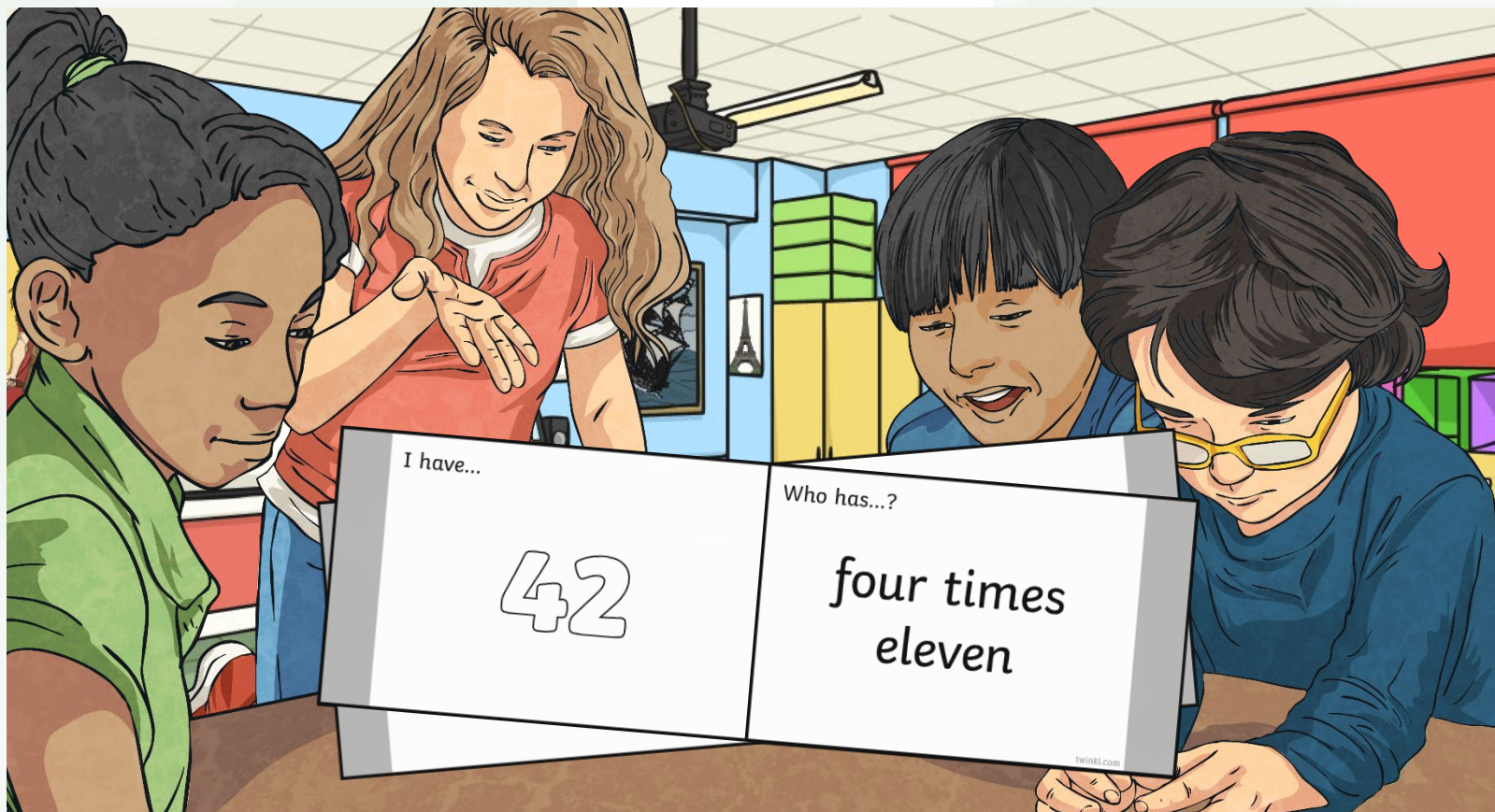
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# Multiplication Tables Loop Cards



How quickly can we complete the loop?

Look for the answer on your card and then ask your question.





# Multiples Venn Diagram

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# Multiples Venn Diagram



How can we sort numbers with the use of a Venn diagram?

24    40    48    30    36    18    32

Multiples of 6

Multiples of 4

Any number which is not a multiple of 6 or 4.

Can you think of some numbers that would fit in this section?

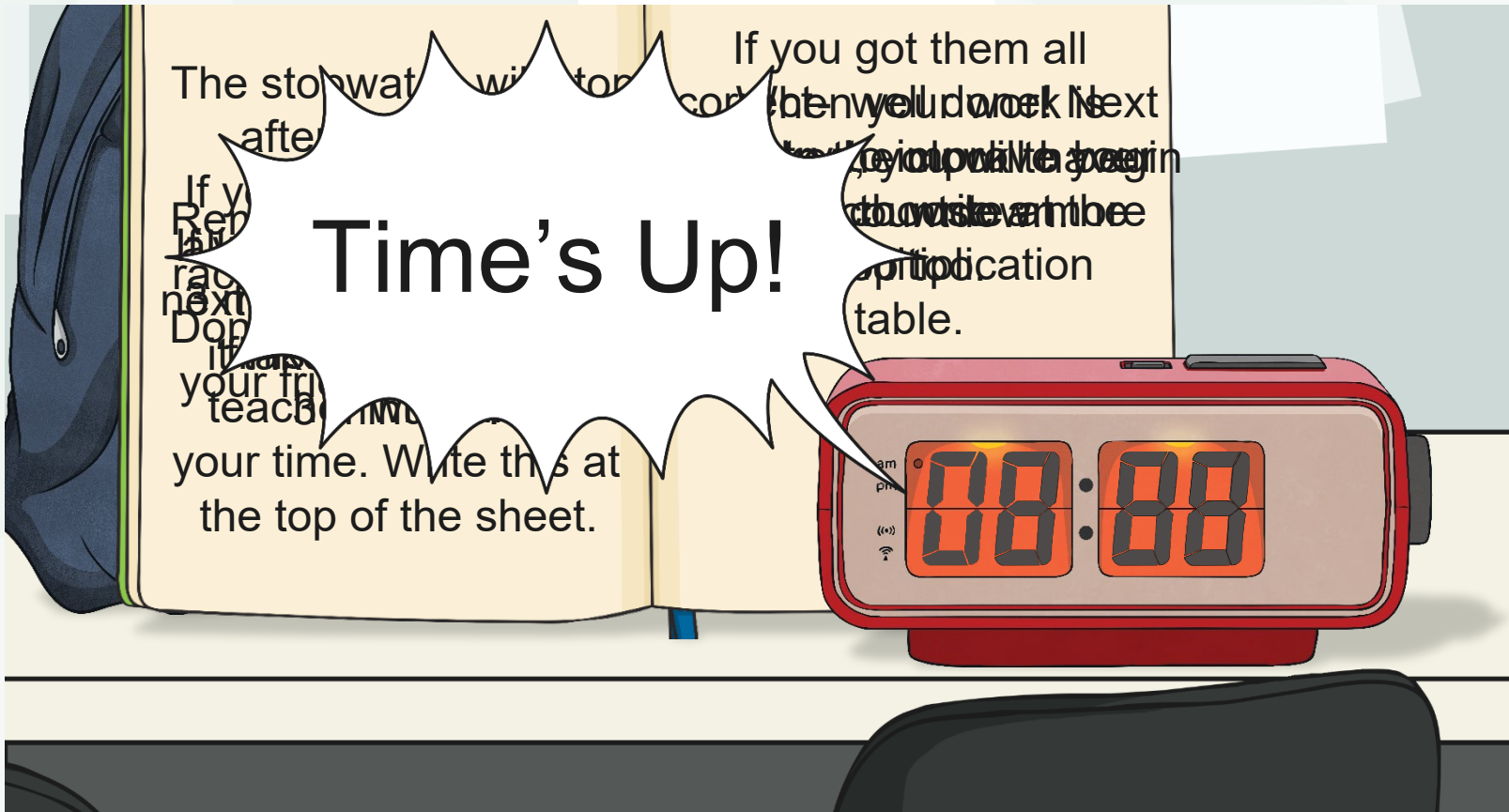
# Beat the Clock

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# Beat the Clock



Your teacher will tell you which columns to complete.



# Factors Treasure Hunt

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# Factors Treasure Hunt



Look at the factors on your Factors Treasure Hunt Sheet.

For example,  
if your factor is 5 and  
you find 70, 35 and 25, then  
you would write these on  
your chart because 5 is a  
factor of 70, 35  
and 25.

12
3
2

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Maths | Year 5 | Multiplication and Division | Prime Numbers | Prime Factors and Composite Numbers | Lesson 1 of 2 | Print or Copy?

# Prime Race

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# Prime Race



In pairs, roll two dice (one each).





**What Am I ?**



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Contents

# What Am I ?



Split into pairs, one person will be the Thinker and the other will be the Guesser.



# Switch



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# Switch



Work in small groups with a beanbag per group.

Your teacher will roll two dice. Add the numbers on the dice together. This is the multiple you will count in.

When your teacher shouts "Switch," change direction, counting down in that multiple.

Count in multiples of this number, passing the beanbag around your group.

When your teacher shouts "All change," roll the dice again and generate a new multiple to practise.

# Fascinating Facts

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# Fascinating Facts



Write down as many facts as you can about this number in two minutes.

Remember to use super  
maths vocabulary, e.g. is it a  
prime or composite number?  
What are its factors and  
prime factors?

64

# Guess the Question



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# Guess the Question



Here is the answer:





# Measures Match

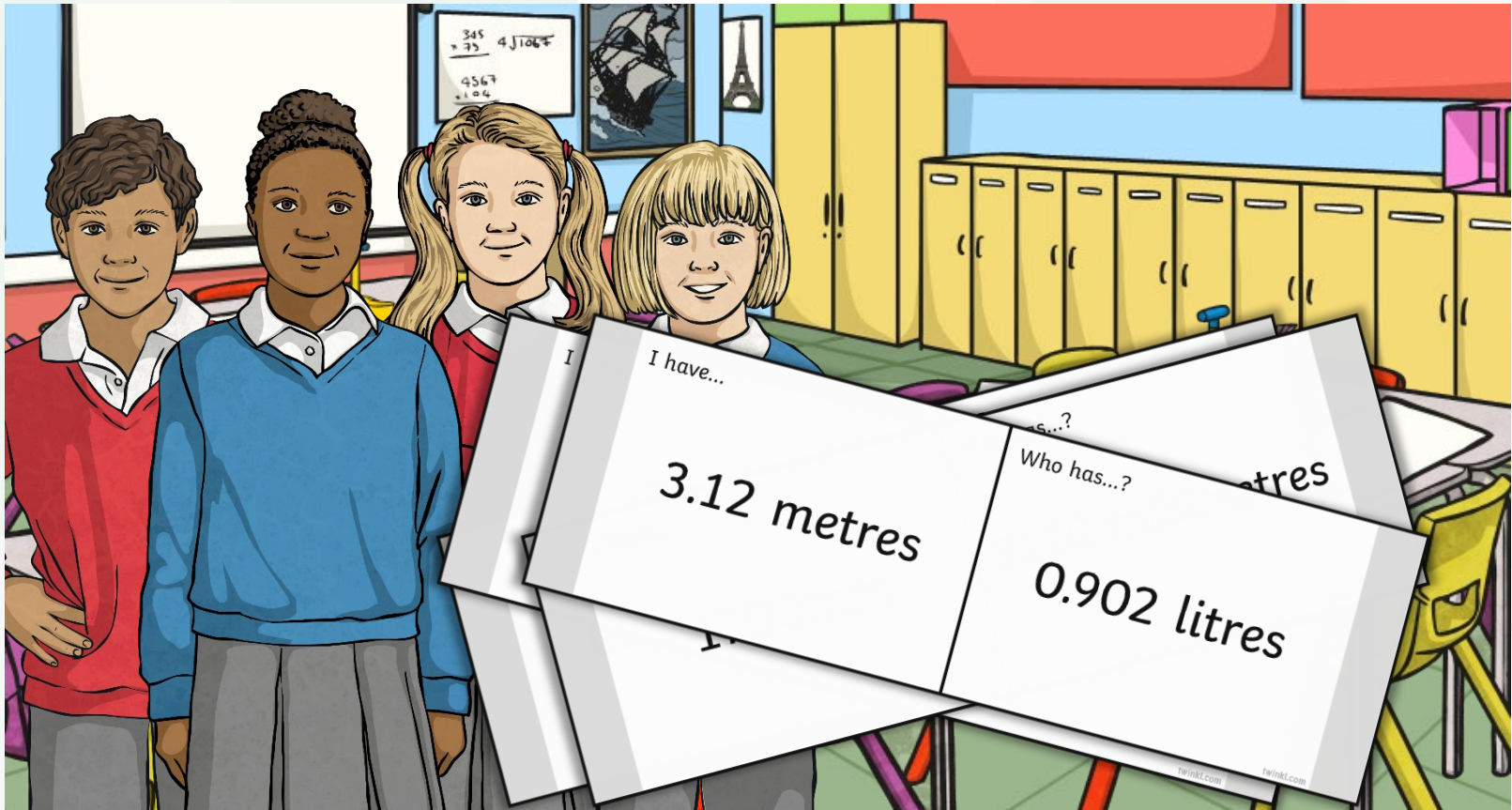


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# Measures Match



Share the **Measures Loop Cards** between the class.



# Perfect Partitioning

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# Perfect Partitioning



How many different ways can you find to partition these numbers?

E.g. 1524 could be partitioned as:

$$1000 + 500 + 20 + 4$$

$$1500 + 20 + 4$$

$$1500 + 24$$

$$500 + 500 + 500 + 20 + 4$$

10 578

258.54

1055

# The Fifteen Times Table

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# The Fifteen Times Table



Can you help Billy Builder with his multiplication?

Which ones are left?  
Can you work out the  
answers?

15	30	45	60	75	90	105	120	135	150
$1 \times 15$	$2 \times 15$	$3 \times 15$	$4 \times 15$	$5 \times 15$	$6 \times 15$	$7 \times 15$	$8 \times 15$	$9 \times 15$	$10 \times 15$

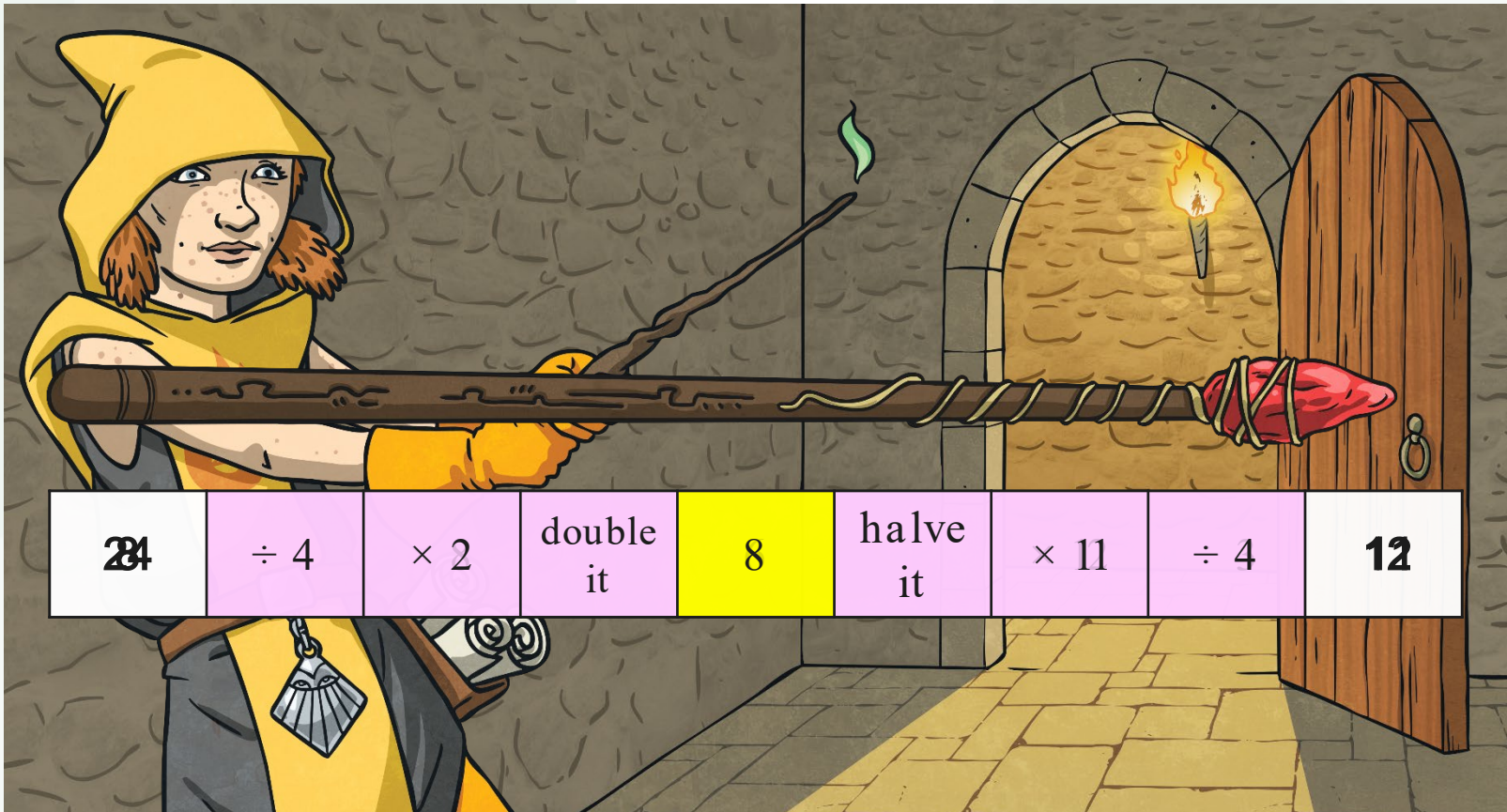
# Magic Wands

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# Magic Wands



Start with the number in the middle and calculate the number which will be at each end of the wand.





# Twinkl Travel Company

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# Twinkl Travel Company



Twinkl Travel need to design their coaches so that they can take as many children as possible out on school visits.

For example, this arrangement of seats fits 65 people on.

5 seats

$12 \times 2 = 24$  seats

aisle

Ideally, they need to fit between 50 and 70 people on the coach. The back seat can be 5 or 6 seats and the rest of

How many different ways can you find to arrange the seats so that 50 to 70 people can travel on the coach?

# What a Mess!

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# What a Mess!



Whoops! The chef spilt chocolate sauce all over her multiplication square. How quickly can you complete the missing numbers for her?

**What a Mess!**  
Oh no! I'm so clumsy! I've just spilt chocolate sauce all over my multiplication square. Can you fill in the missing numbers for me?

x	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

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Maths | Year 5 | Multiplication and Division | Written Methods for Division I  
Lesson 2 of 6: Delicious Division  
visit twinkl.com

# Banana Maths

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# Banana Maths



Multiply the three digits on the bananas together to work out the number of bananas swiped by each monkey, e.g.  $3 \times 2 \times 4 = 24$

Monkey number 7 is the greediest monkey!

Monkey Number	Digit 1	Digit 2	Digit 3
1	4	5	3
2	5	6	2
3	5	7	4
4	3	9	2
5	7	2	9
6	2	4	2
7	6	8	4
8	2	7	6

# Buddies

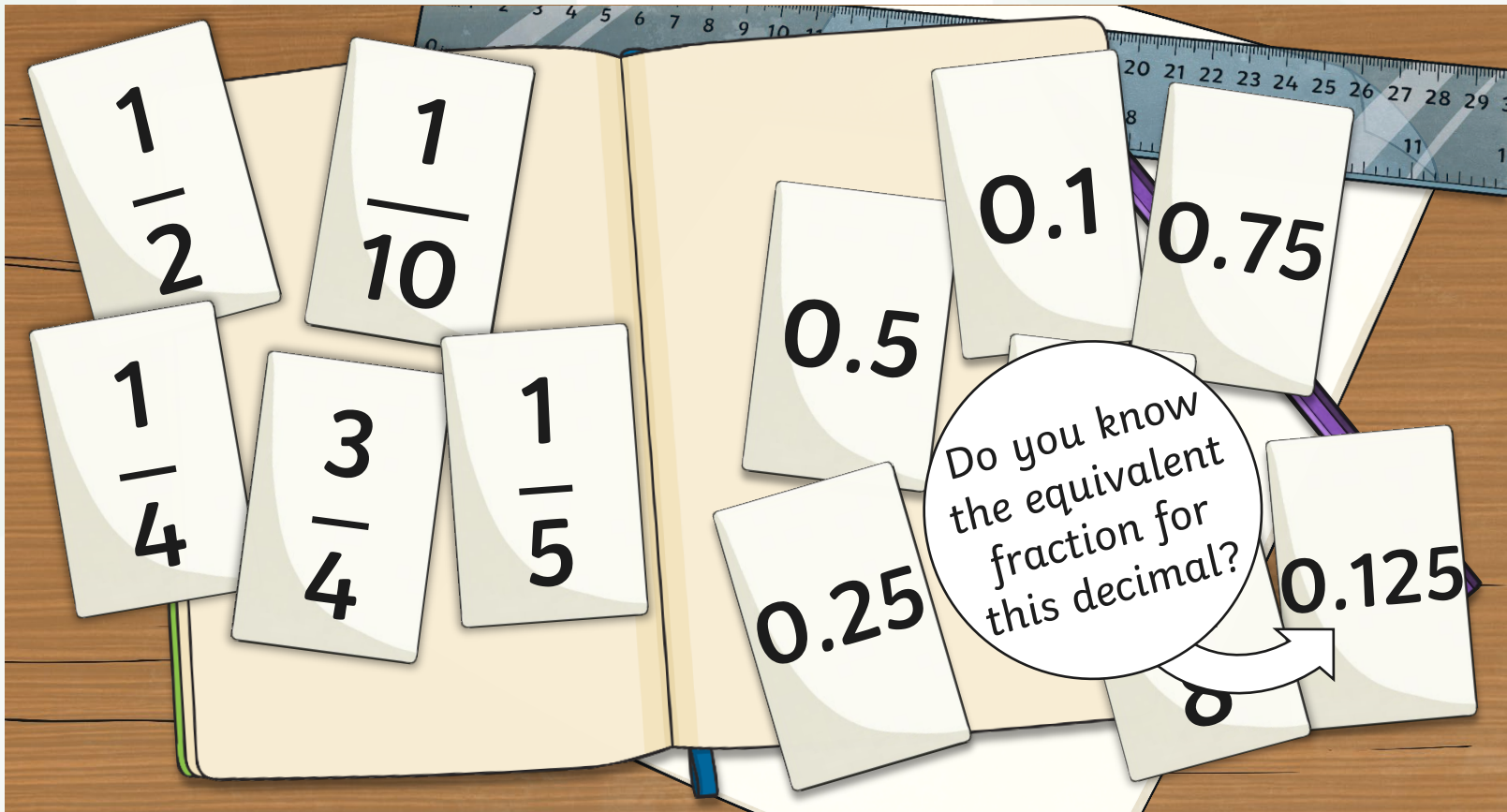


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# Buddies



Can you match each fraction with its equivalent decimal?  
Which one is the odd one out?





# Signs



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# Signs



As each word appears, use one of the cards to show which operation it is associated with. Is it addition, subtraction, multiplication or division?



# Dynamic Digits

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Contents

# Dynamic Digits



What number does the highlighted digit in the star stand for?  
Match the shooting star to the planet which shows the answer.

300

7

2 000 000

50

60 000

60

40

400

900

500 000

2 919 000

# Match-Up



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# Match-Up



You need a **Time Match-Up Card** each.



# Loop Cards 2



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# Loop Cards 2



Share out the cards between the class.  
Can you link each question and answer?





# Decimal Dancing

# Decimal Dancing



How are your dance moves today?

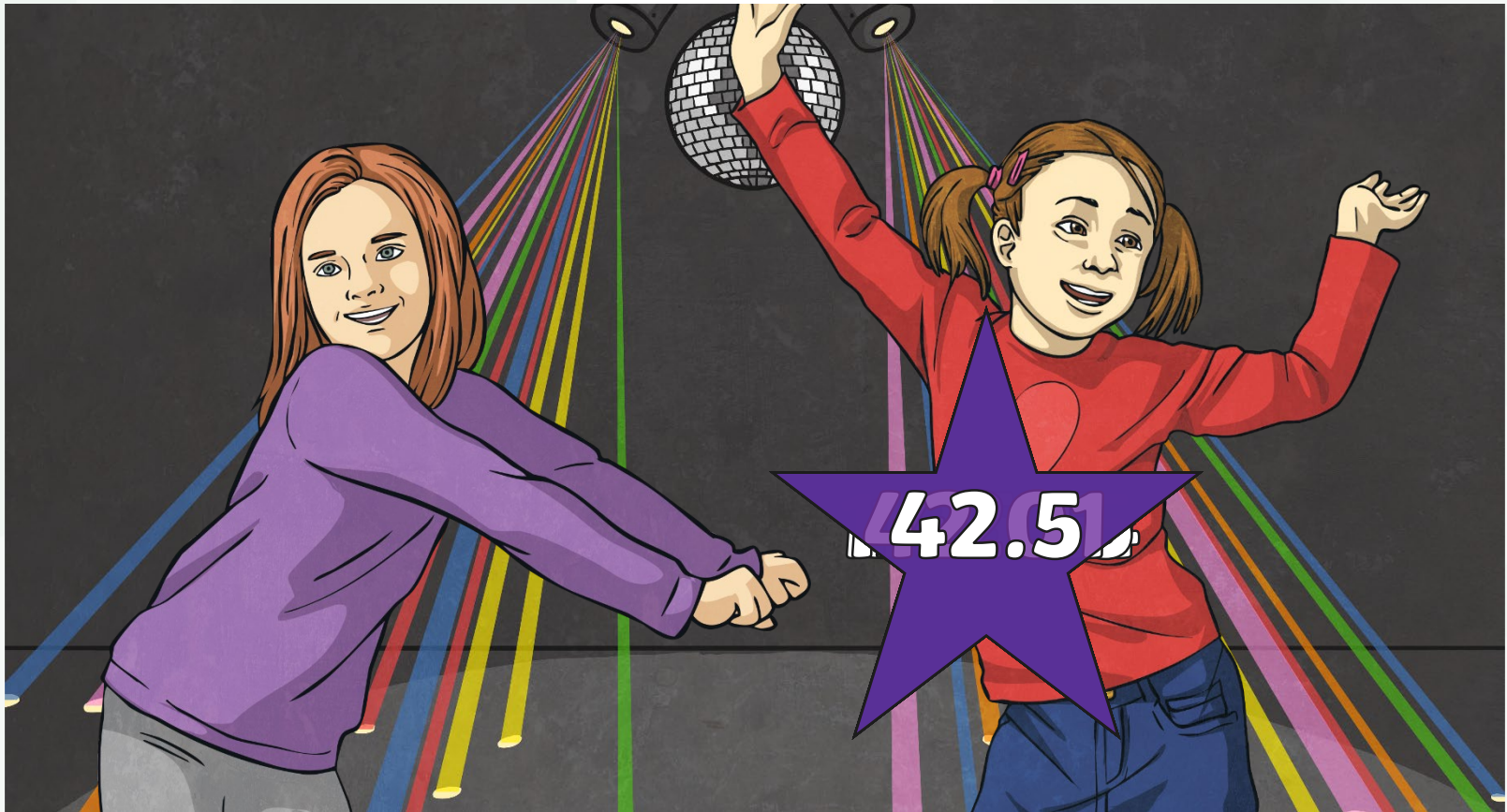


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# Decimal Dancing



Get dancing!



# Trios



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# Trios



Match up the problem, the calculation and the answer.  
Use a whiteboard to help.

How many m in 3520km?       $\pi 1000 =$       872.93cm

Convert 624 000m into km       $/ 10 =$       3 520 000m

How many m in 352cm?       $/ 100 =$       3.52m

How many cm in 3.52m?       $\pi 10 =$       6728mm

Convert 8729.3mm into cm       $\pi 100 =$       352cm

Convert 672.8cm into mm       $/ 1000 =$       624km

# Hot Potato

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# Hot Potato



Pass the potato as quickly as you can. It's really hot!



# Bingo





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# Bingo



Listen carefully to the question and calculate the answer.



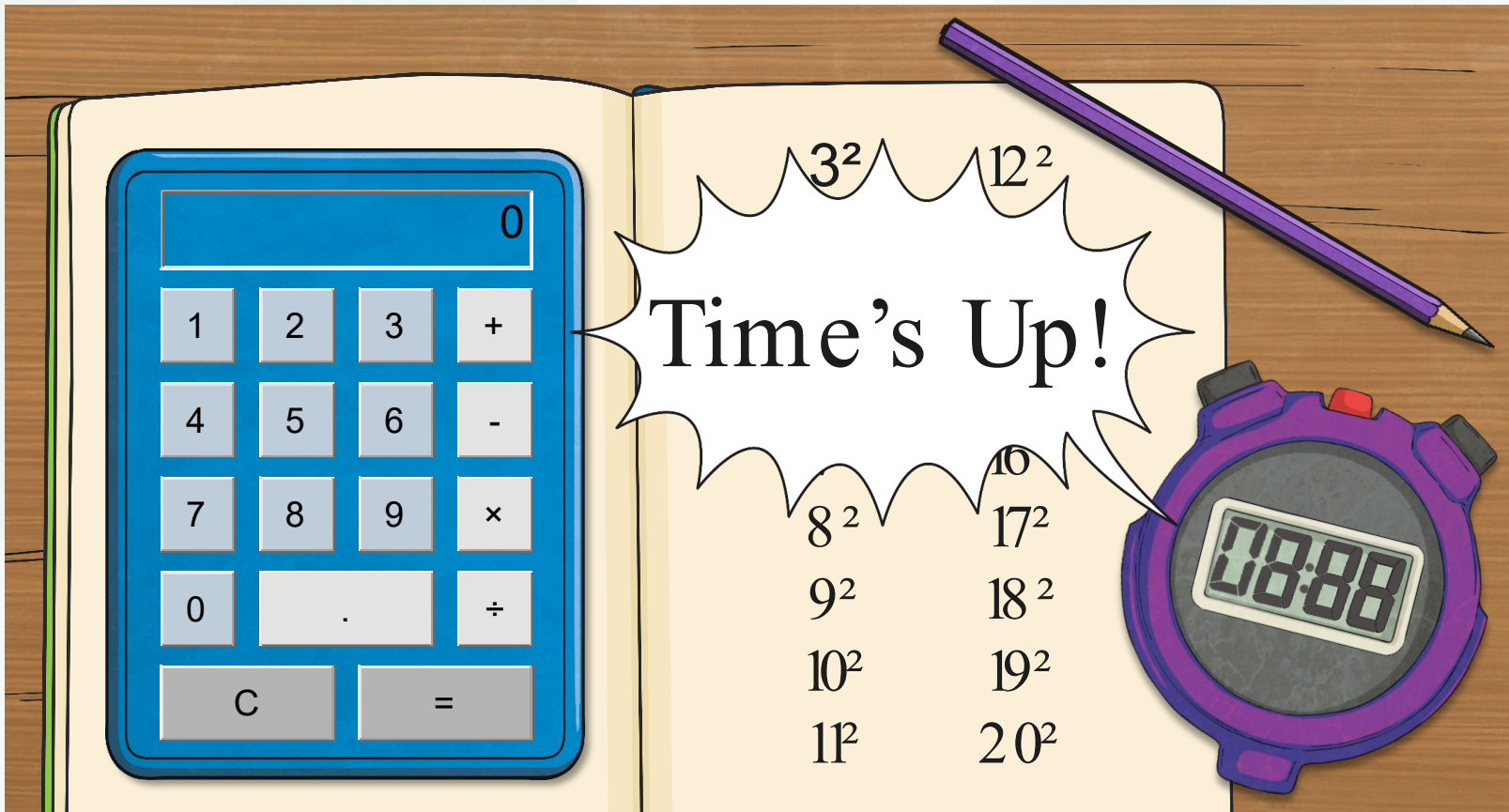
# Square Numbers

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# Square Numbers



How many square numbers can you calculate in three minutes?  
Check your answers using the calculator.



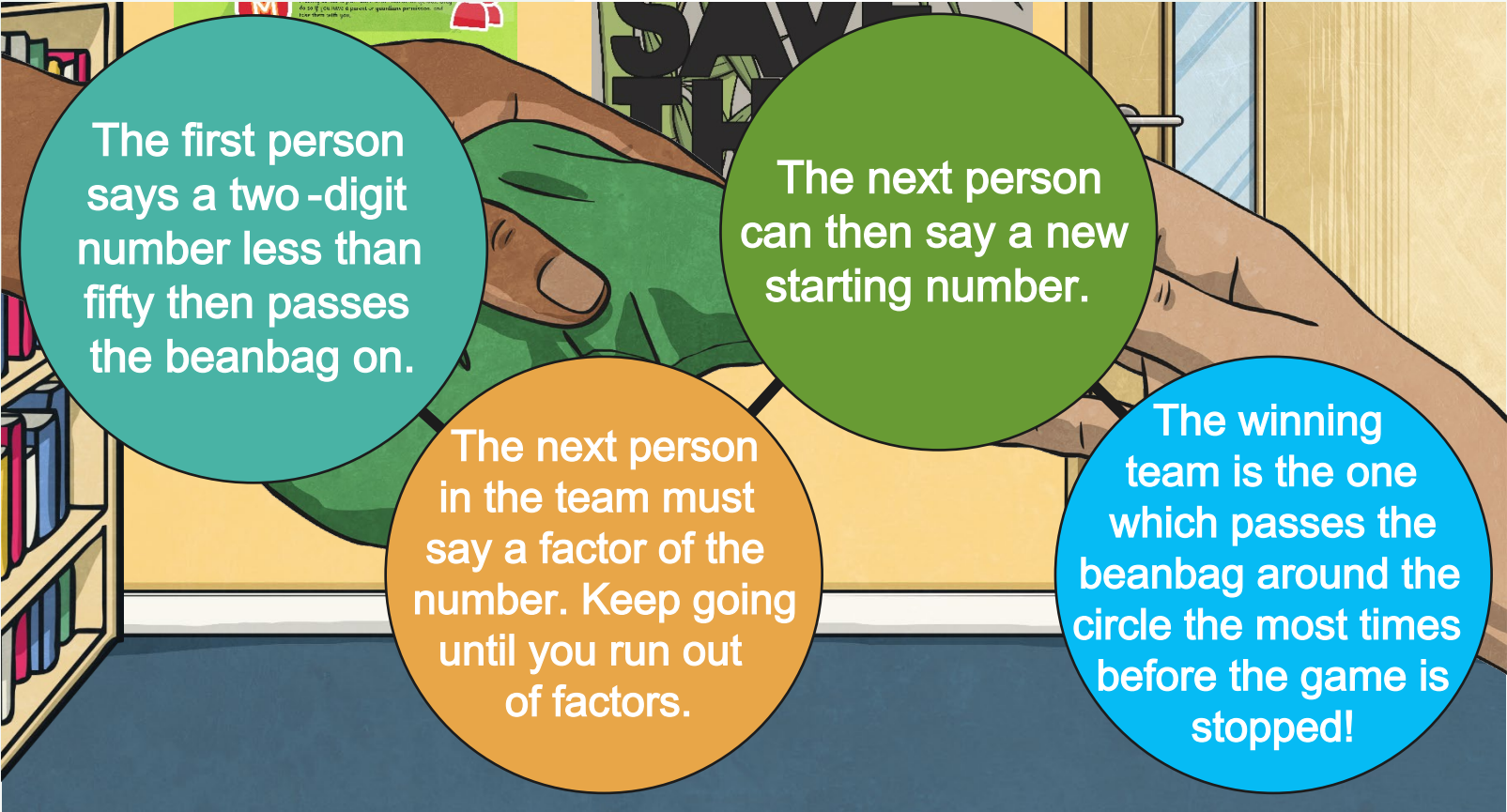
# Factor Race

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# Factor Race



Stand in a circle.



The first person says a two-digit number less than fifty then passes the beanbag on.

The next person can then say a new starting number.

The next person in the team must say a factor of the number. Keep going until you run out of factors.

The winning team is the one which passes the beanbag around the circle the most times before the game is stopped!

# Spiders

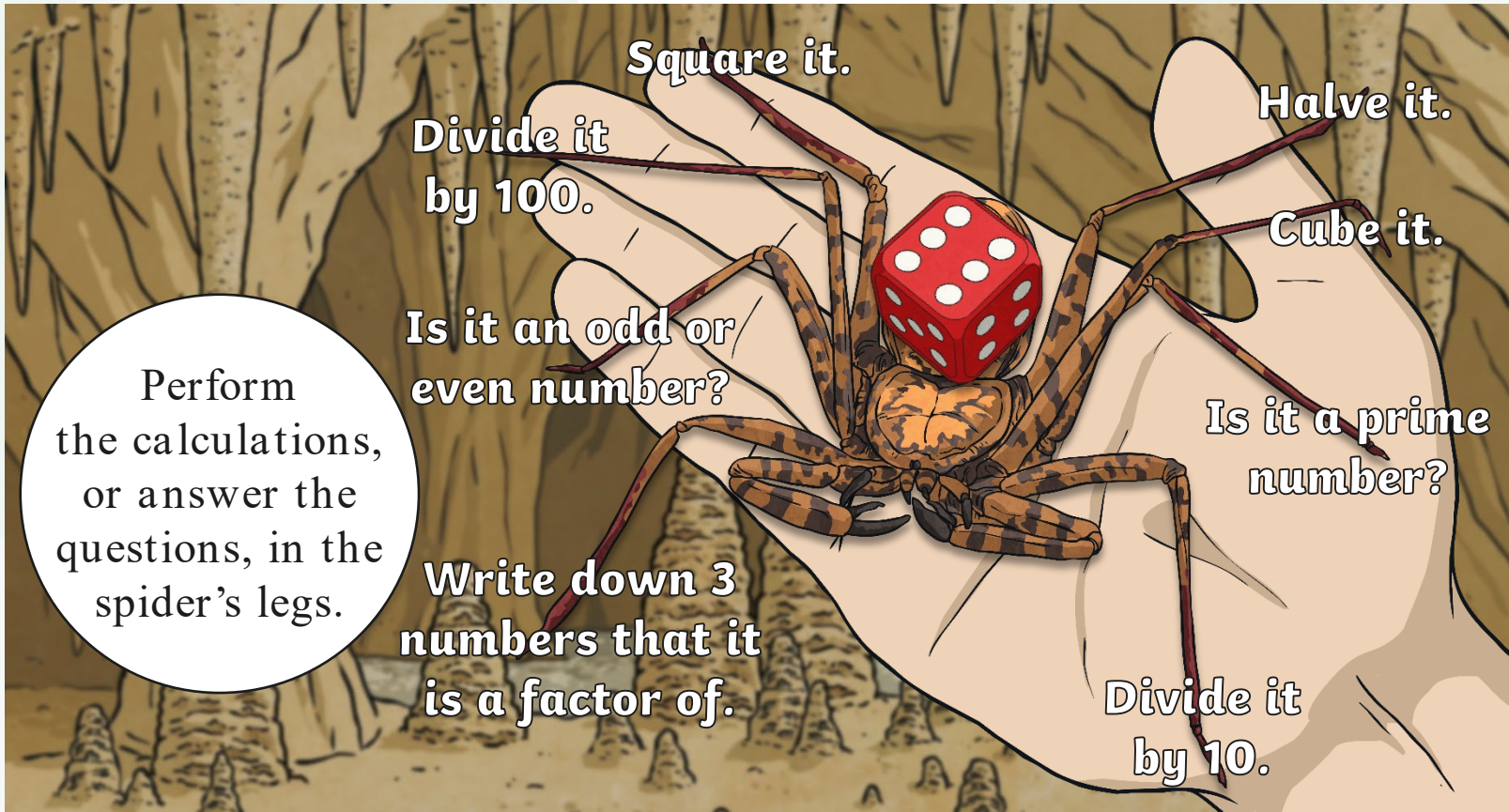


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# Spiders



Roll a dice. This is the number that goes inside the spider.



# Missing Numbers





# Missing Numbers



How many of these missing numbers can you find in three minutes?

$3 \times 12 =$

$21 = 7 \times ?$

$64 = ?^2$

$60 = ? \times 3$

$9 = 81 \div ?$

$5 = 25 \div ?$

$6 \times ? = 36$

$8 \times ? = 56$

$7 \times ? = 63$

$9 \times ? = 36$

$72 = ? \times 8$

$77 = ? \times 7$

$12 \div ? = 3$

$24 \div ? = 6$

$144 \div ? = 12$

$132 \div ? = 12$

$\sqrt{?} = 4$

$\sqrt{?} = 7$

$7^2 = ?$

$9^2 = ?$

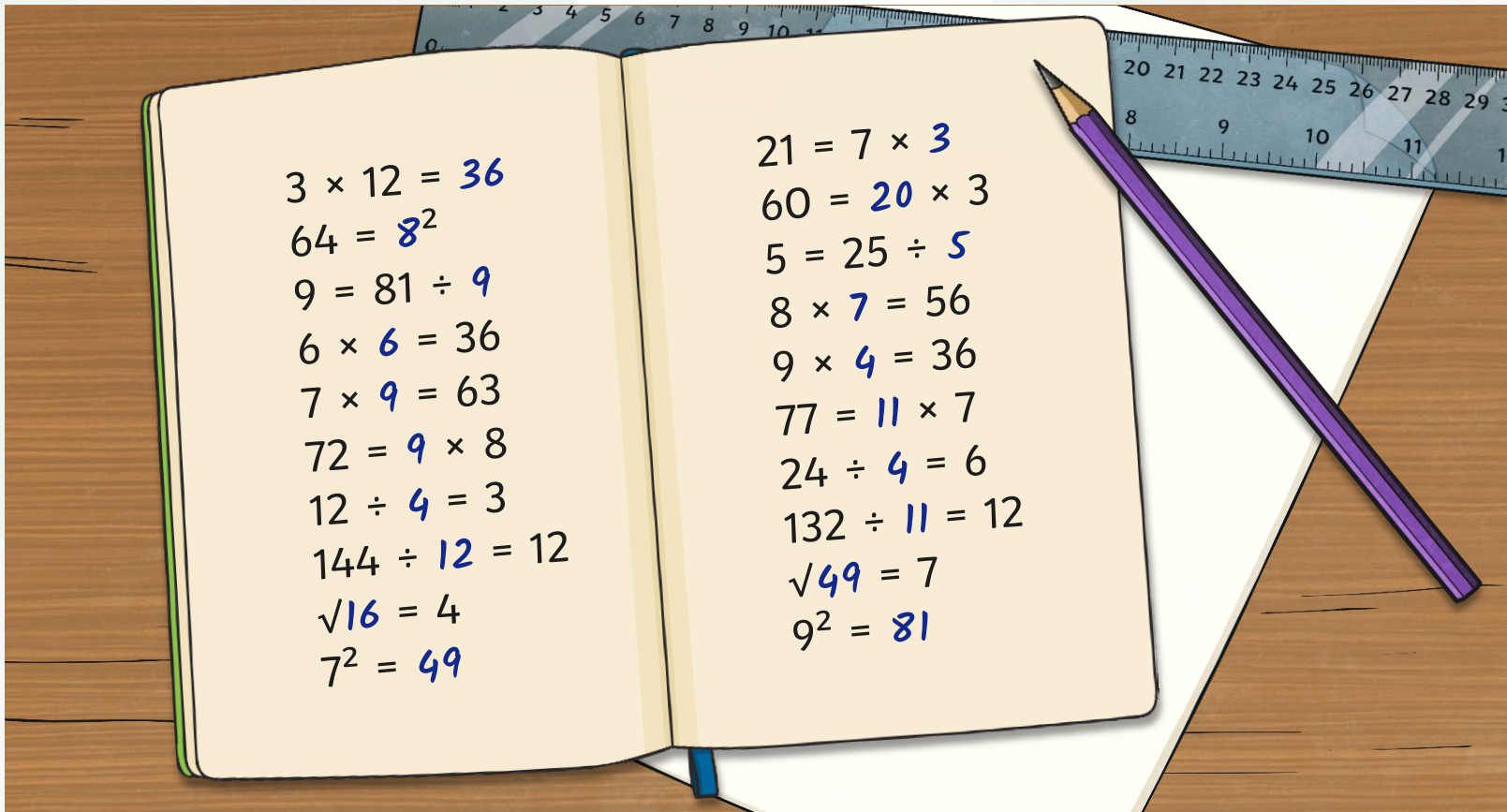


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# Missing Numbers Answers



How did you do?



# Arrays

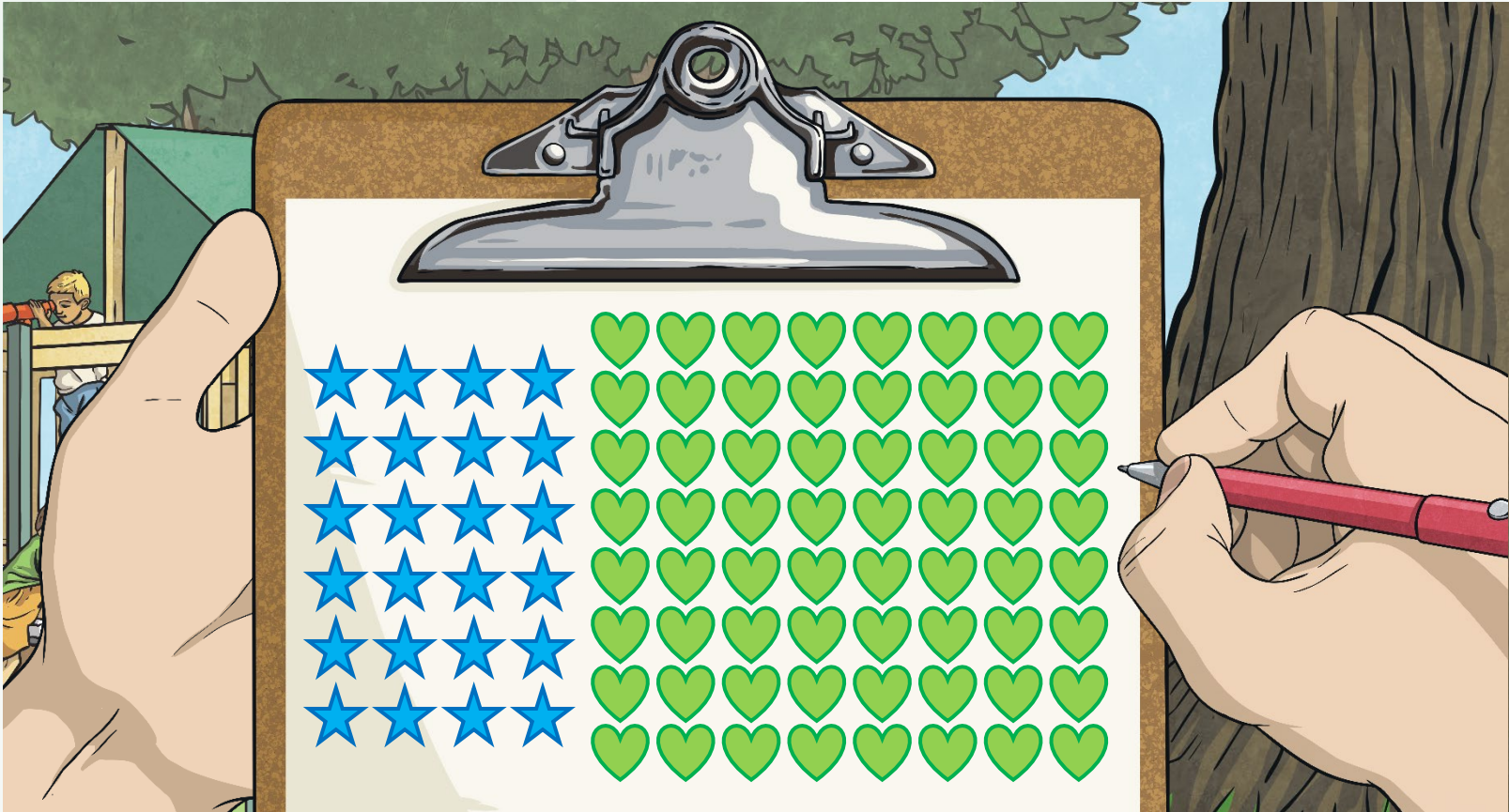


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# Arrays



How many different calculations can you write to describe these arrays? You can use the  $\times$ ,  $\div$  and  $+$  signs.



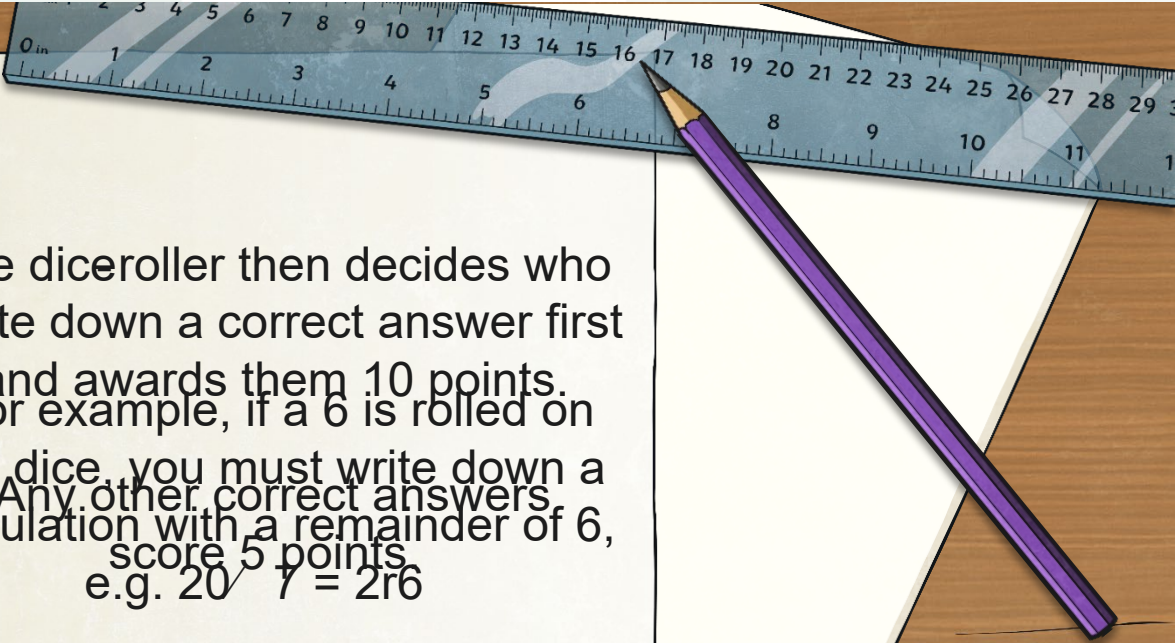

# Remainders

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# Remainders



One player in the group rolls the dice. The other players must write down a division calculation with that remainder.



The diceroller then decides who wrote down a correct answer first and awards them 10 points. For example, if a 6 is rolled on the dice, you must write down a calculation with a remainder of 6, score 5 points, e.g.  $20 \div 7 = 2r6$

The winner is the diceroller for the next round.

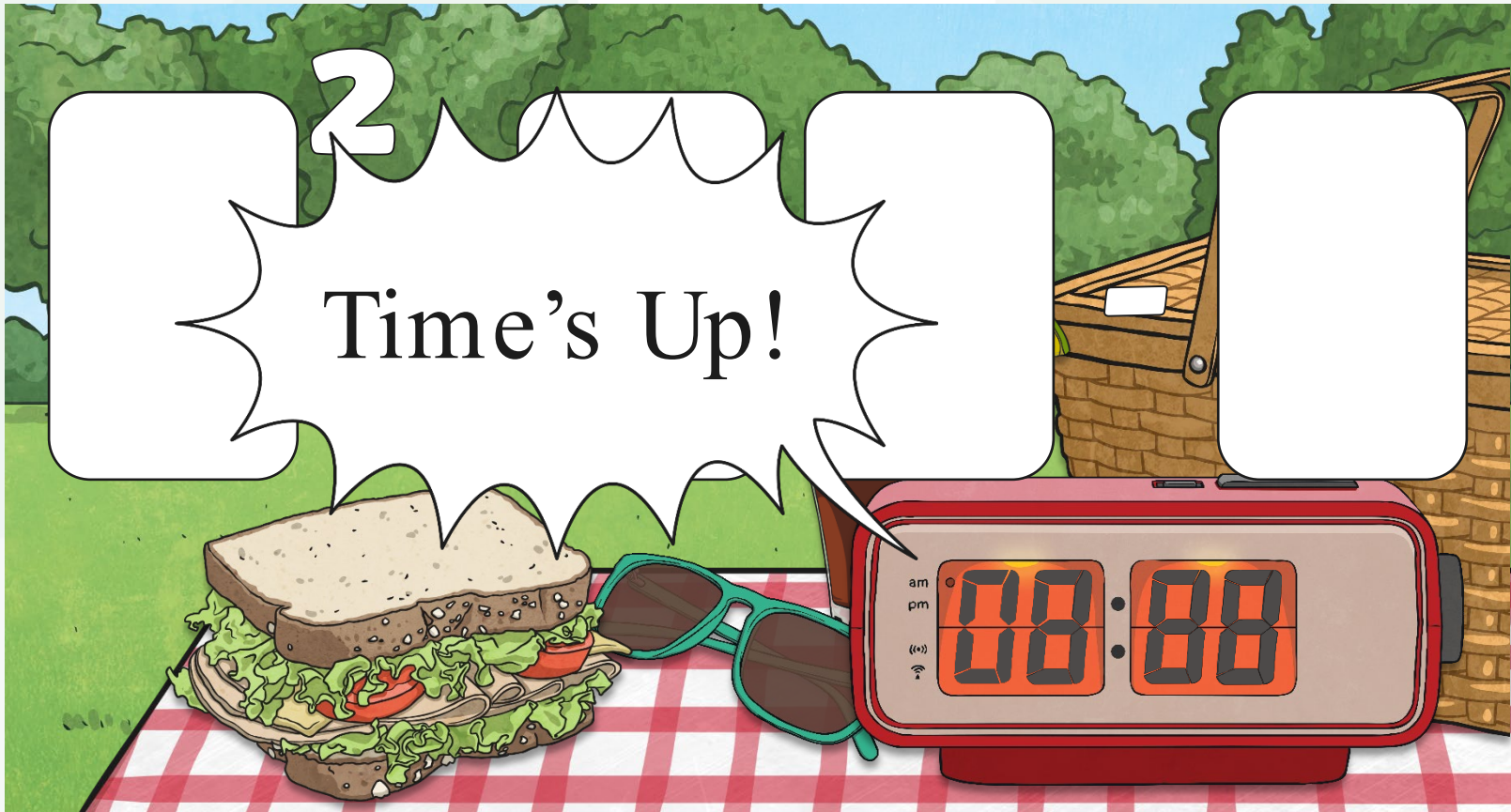
# Possibilities

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# Possibilities



Using one digit per box, how many different calculations  
can you think of to make this equation correct?  
Click the clock for a three-minute countdown.





# Keywords



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# Keywords



Fold your piece of paper into quarters.

Write add, subtract, multiply and divide in different quarters.



Time's Up!

Write down as many words which mean, or are associated with, each operation as you can. You have three minutes!

# Fantastic Fractions!

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# Fantastic Fractions!



Work with a partner to calculate the fractions on the cards.

**Remember:**

Divide the whole number by the denominator.  
6 is  $\frac{1}{4}$  of 24.

Multiply the answer by the numerator.  
 $6 \times 3 = 18$

18 is  $\frac{3}{4}$  of 24.

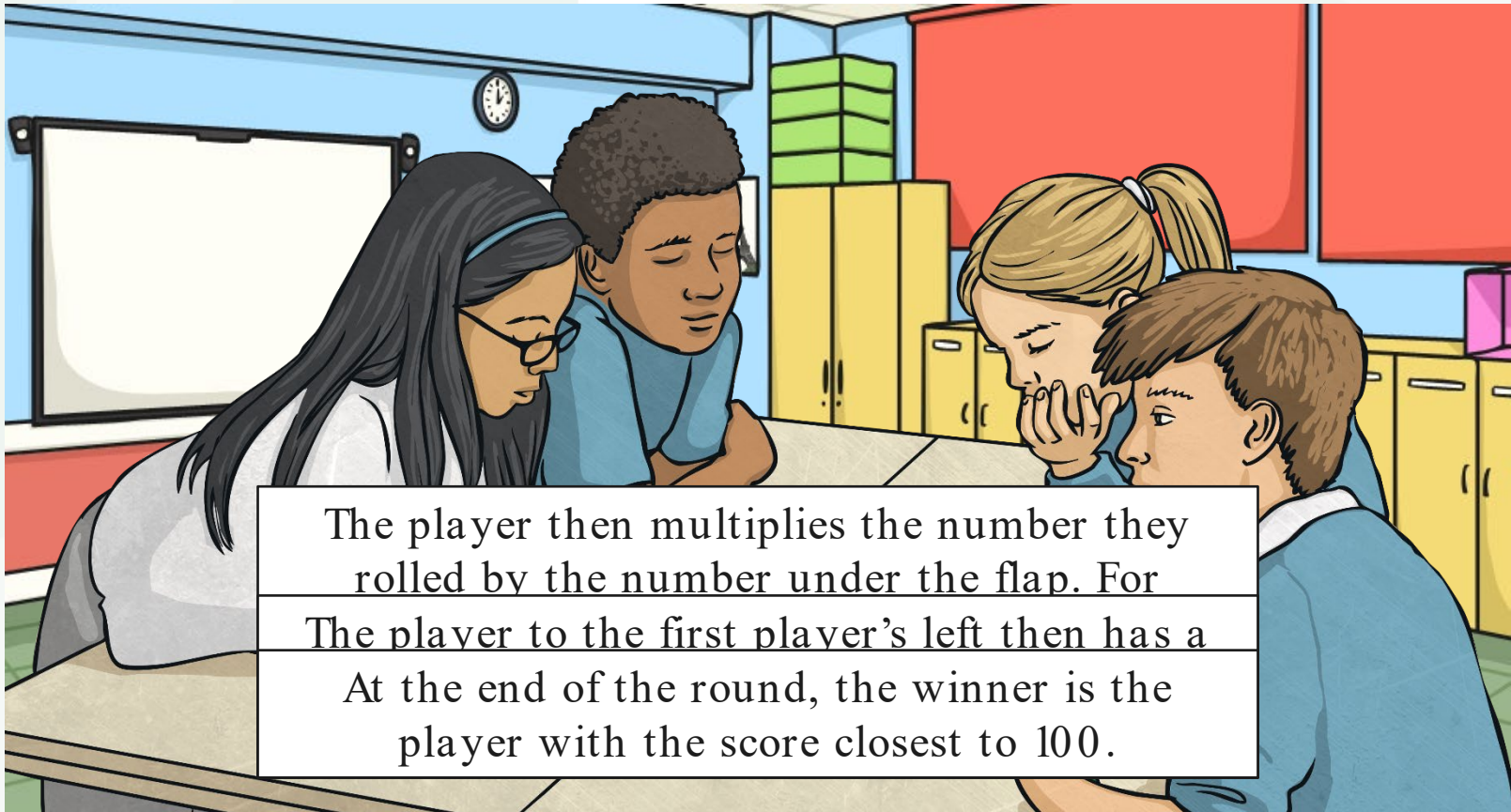
# Masterful Multiplication

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# Masterful Multiplication



The oldest member of your group has the first turn and rolls the dice. They lift up a flap with that number on it.

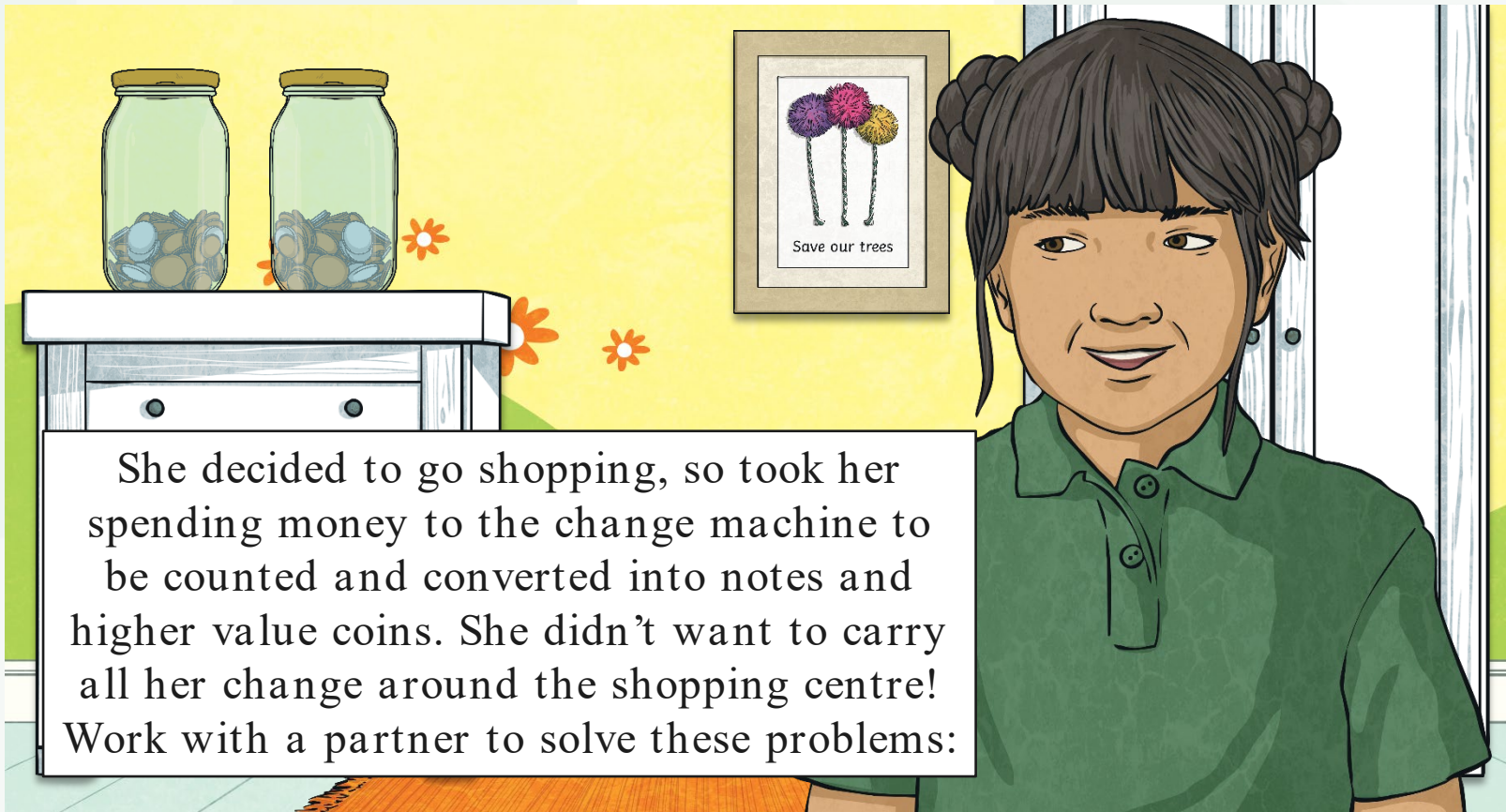


# Change Machine

# Change Machine



Chen saved up her loose change in jars in her bedroom.



She decided to go shopping, so took her spending money to the change machine to be counted and converted into notes and higher value coins. She didn't want to carry all her change around the shopping centre!  
Work with a partner to solve these problems:



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# Change Machine



Chen is changing her money at the shopping centre.

