



Maths

Addition, Subtraction,
Multiplication and Division

Gotta Find Em All!



Aim

- I can perform mental calculations with mixed operations.

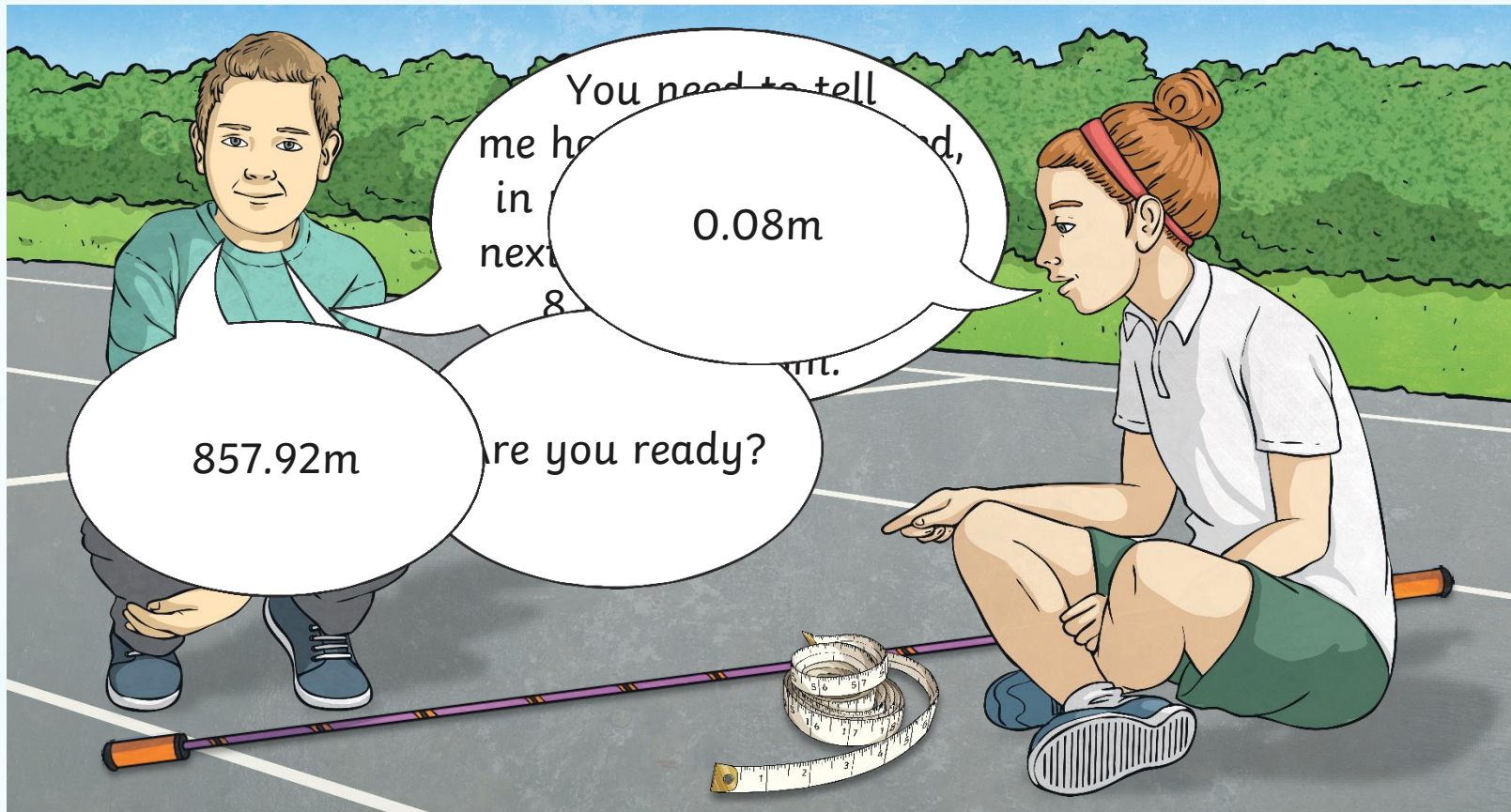
Success Criteria

- I can partition a variety of numbers.
- I can add or subtract the nearest multiple of 10 or 100 then adjust.
- I can identify near doubles.
- I can use repeated doubling or halving.
- I can solve problems using known number facts.

How Much More?



I will say a length, e.g. 7.67m.



Star Training

Some calculations we can do in our head mentally. We can write notes to help us remember key numbers while working out the answer.



Star Training

Which strategy will be most useful when completing this calculation?

$$457.6 + 384.5 = 842.1$$

So add the hundreds first
To make this easier to work out, we
can use the method partitioning.
Then add the tens.

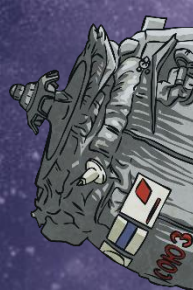
$457.6 + 300 = 757.6$
 $657.6 + 80 = 837.6$
This involves partitioning into
hundreds, tens, ones and tenths,
adding the hundreds first.
Lastly, add the tenths.

$$741.6 + 0.5 = 842.1$$

The answer is 842.1.

Star Training

Which strategy will be most useful when completing this calculation?


$$5935 - 485.5 = 5449.5$$

So subtract the hundreds first
We can use partitioning when

$$5935 - 400 = 5535$$

subtracting.

Then subtract the tens.

$$5535 - 80 = 5455$$

This involves partitioning into
Next, subtract the ones
hundreds, ten, ones and tenths,

$$5455 - 5 = 5450$$

subtracting the hundreds first.

Lastly subtract the tenths.

$$5450 - 0.5 = 5449.5$$

The answer is 5449.5.

Star Training

Which strategy will be most useful when completing this calculation?

$$1459 + 294 = 1753$$

The nearest multiple of ten to 294 is 300.
To make this easier to work out,
This is six more than 294,
we can use a method called
compensation.

$$1459 + 300 = 1759$$

We then need to adjust our answer
to make up for the six that we added.
This involves adding to the nearest
multiple of 10 or 100 then adjusting.
Therefore we subtract 6 from
our answer.

$$1759 - 6 = 1753$$

Star Training

Which strategy will be most useful when completing this calculation?

$$68.9 - 45 = 23.9$$

So the nearest multiple of 10 to 68.9 is 70. This is 1.1 more than 68.9.
We can also use compensation when subtracting.
 $70 - 45 = 25$

- We then need to adjust our answer to make up for the 1.1 that we didn't subtract to get to 70. This involves subtracting to the nearest multiple of 10 or 100 then adjusting.

Therefore we subtract 1.1 from our answer.

$$25 - 1.1 = 23.9$$



Star Training

Which strategy will be most useful when completing this calculation?

$$164.5 + 170.1 = 334.6$$

Double 164.5
To make this easier to work out, we
can use the method near doubles.
 $164.5 + 164.5 = 329$
We then need to adjust, as we needed
to add 170.1 not 164.5.
This involves doubling, then
Therefore we add 5.6 onto our answer.
adjusting.
 $329 + 5.6 = 334.6$

Star Training

Which strategy will be most useful when completing this calculation?


$$15.5 \times 8 = 124$$

15.5×2 is the same as double 15.5.
We can use repeated doubling to solve this calculation.

Double $15.5 = 31$
If we double this answer, it will be equivalent to 15.5×4 .

$$\text{Double } 31 = 62$$

If we double this answer, it will be equivalent to 15.5×8 .

$$\text{Double } 62 = 124$$

$$\text{So } 15.5 \times 8 = 124$$

Star Training

Which strategy will be most useful when completing this calculation?

$$42 \div 4 = 10.5$$

$42 \div 2$ is the same as halving 42.
We can use repeated halving to solve this calculation.

Half of 42 = 21
If we halve this answer, it will be equivalent to $42 \div 4$.

$$\text{Half of } 21 = 10.5$$

$$\text{So } 42 \div 4 = 10.5$$

Star Training

Which strategy will be most useful when completing this calculation?

$$31.5 \times 20 = 630$$

Double 31.5 is 63.
We can use equivalent calculations
to solve this: doubling, then multiply
by 10.
 $63 \times 10 = 630$

$$\text{So } 31.5 \times 20 = 630$$

Star Training

Which strategy will be most useful when completing this calculation?

$$2700 \div 3 = 900$$

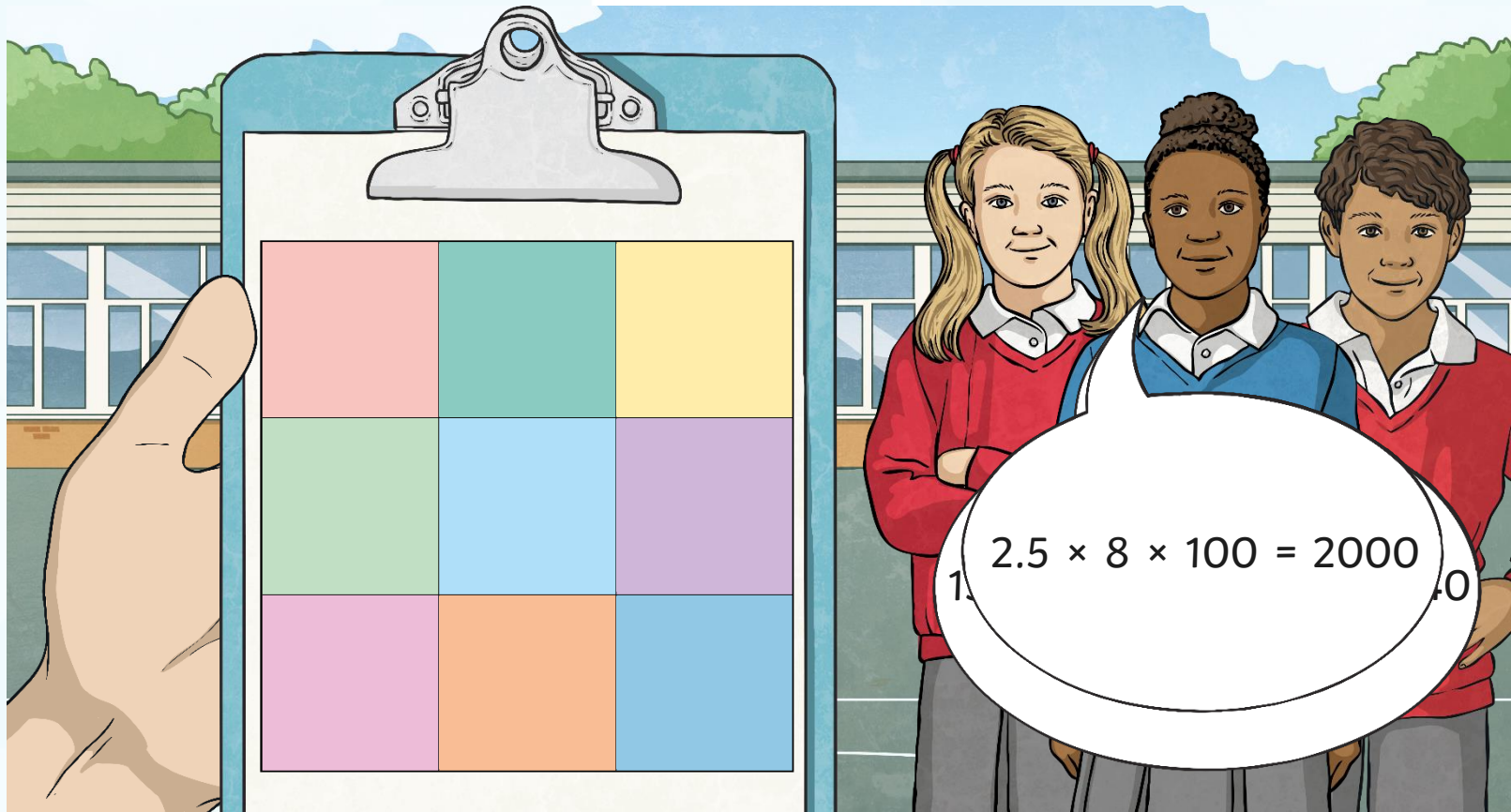
We know $27 \div 3 = 9$.
We can use known facts to solve this calculation.
Therefore:

$$2700 \div 3 \text{ must be } 900.$$

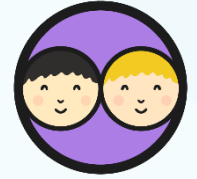
Puzzle Points



Select a box within the grid and answer the question correctly to collect the points. Click on the speech bubble to reveal the answer.



Gotta Find Em All!



You will be playing a find and sink game in pairs.

★ Player One Card ★ Player Two Card

★ Player One Card ★ Player Two Card

★ Player One Card ★ Player Two Card

★ **Star Grid Game**

I can perform mental calculations with mixed operations.

Hide your three stars on this grid in different coordinate squares.

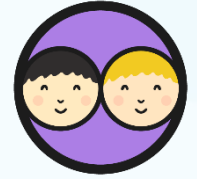
4			

Use this grid to help you find your partner's stars.

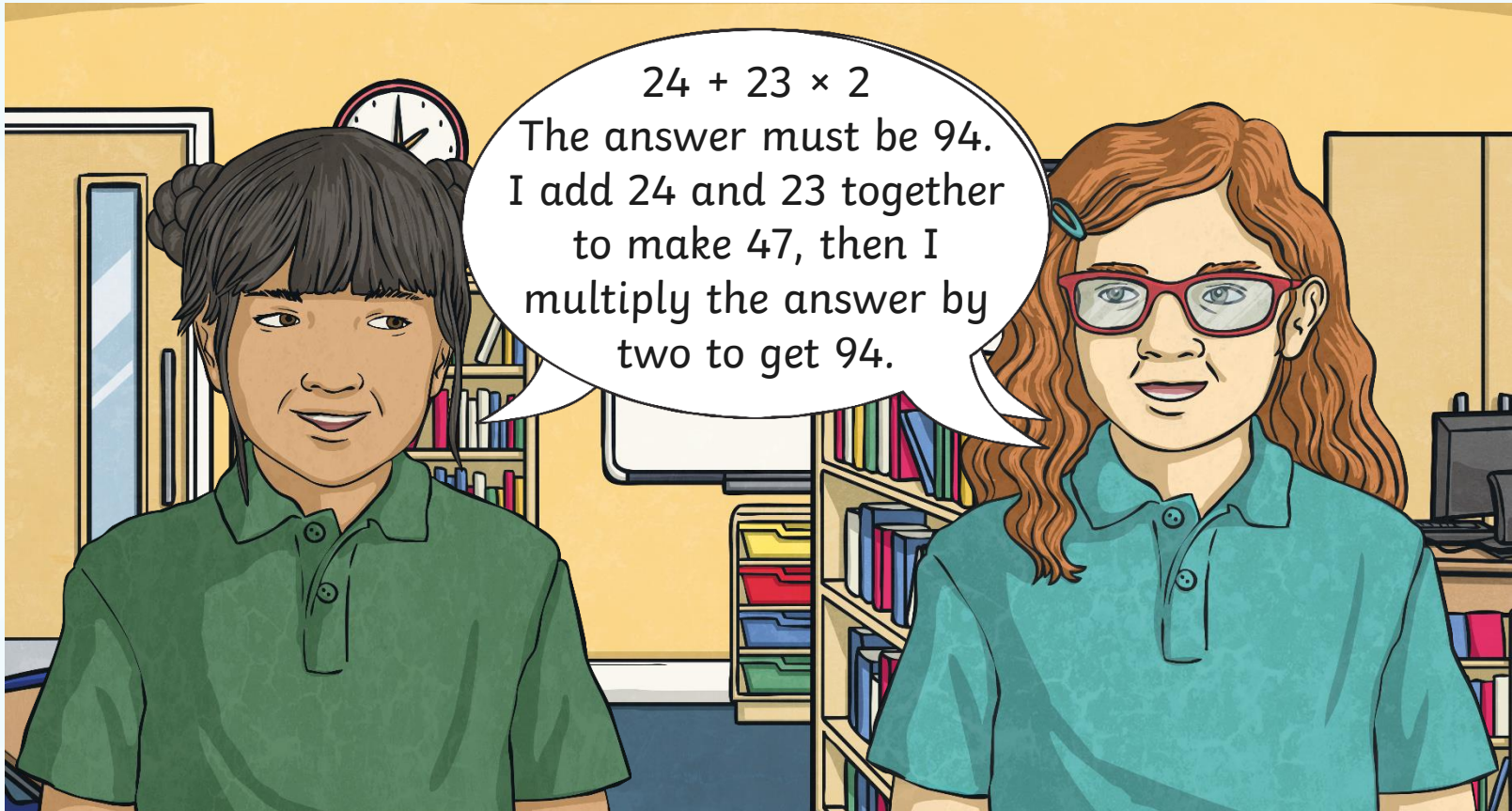
4				
3				
2				
1				
	1	2	3	4

Repeat again with your partner. You have your partner's answer sheet included in your pack to check their answers. The first person to find their partner's hidden stars wins!

True or False



Are the statements true or false?
Explain your answer.



Aim



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