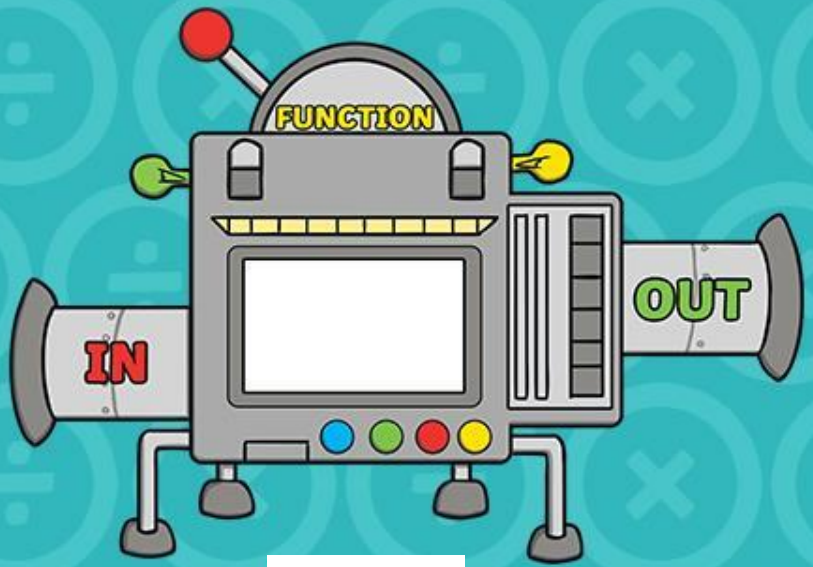
Maths

Multiplication and Division

The Multiplying Machine



Aim

- I can calculate mathematical statements for the 2, 5 and 10 times tables.

Success Criteria

- I can multiply by 2, 5 and 10.
- I can write a repeated addition sentence.
- I can use the × and ÷ symbols.

Bingo!

Write down 6 numbers on your whiteboard. They need to be multiples of 2, 5 or 10. I will say a multiplication sentence. If you have the answer on your board, cross it off.

The first person to cross out all their numbers is the winner.

Bingo!

Were some numbers more likely to win than others?
Explain your thinking.

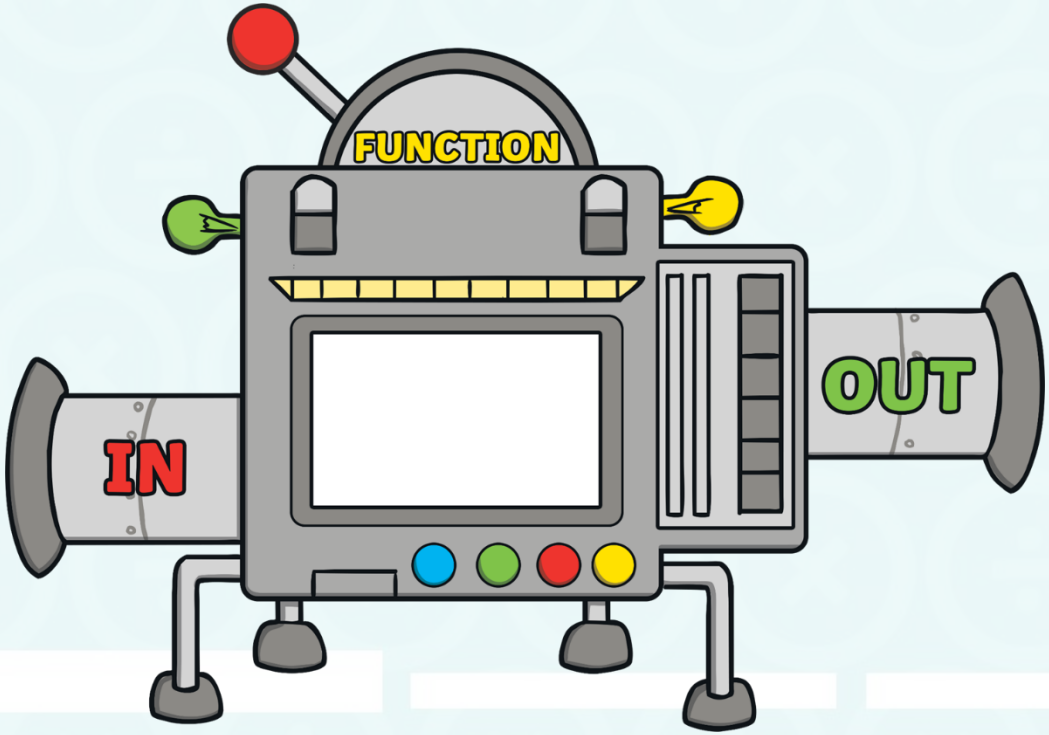
Which numbers were least likely to come up?
Explain your thinking.

Play the game again.
Which numbers will you choose this time?

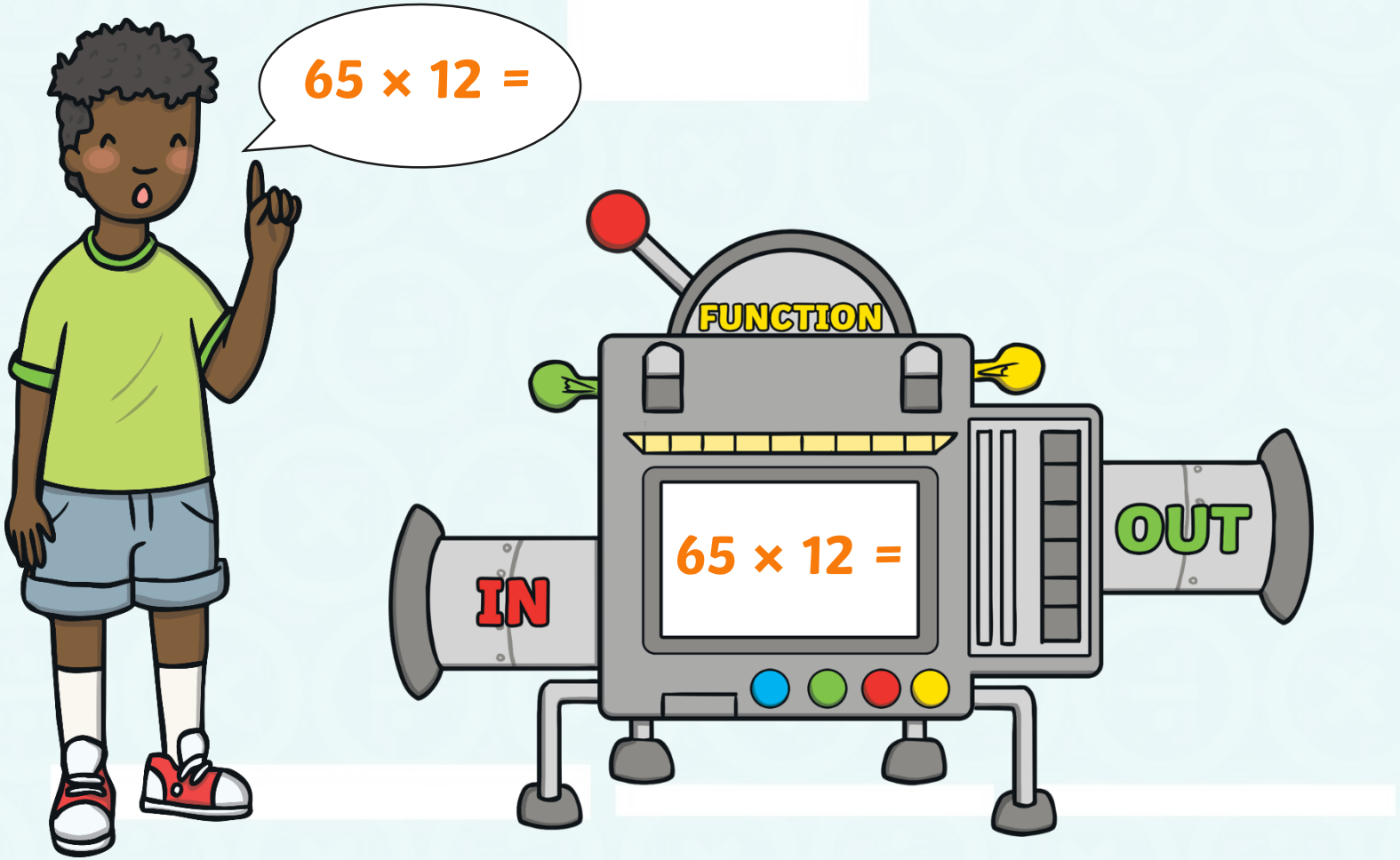
Perhaps you could think of extra rules, such as, you must choose a number that is **only** a multiple of 2 or 5?

Matilda the Multiplying Machine

Matilda is an amazing multiplier.
She will answer any question you ask her!

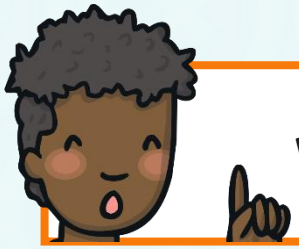


Matilda the Multiplying Machine

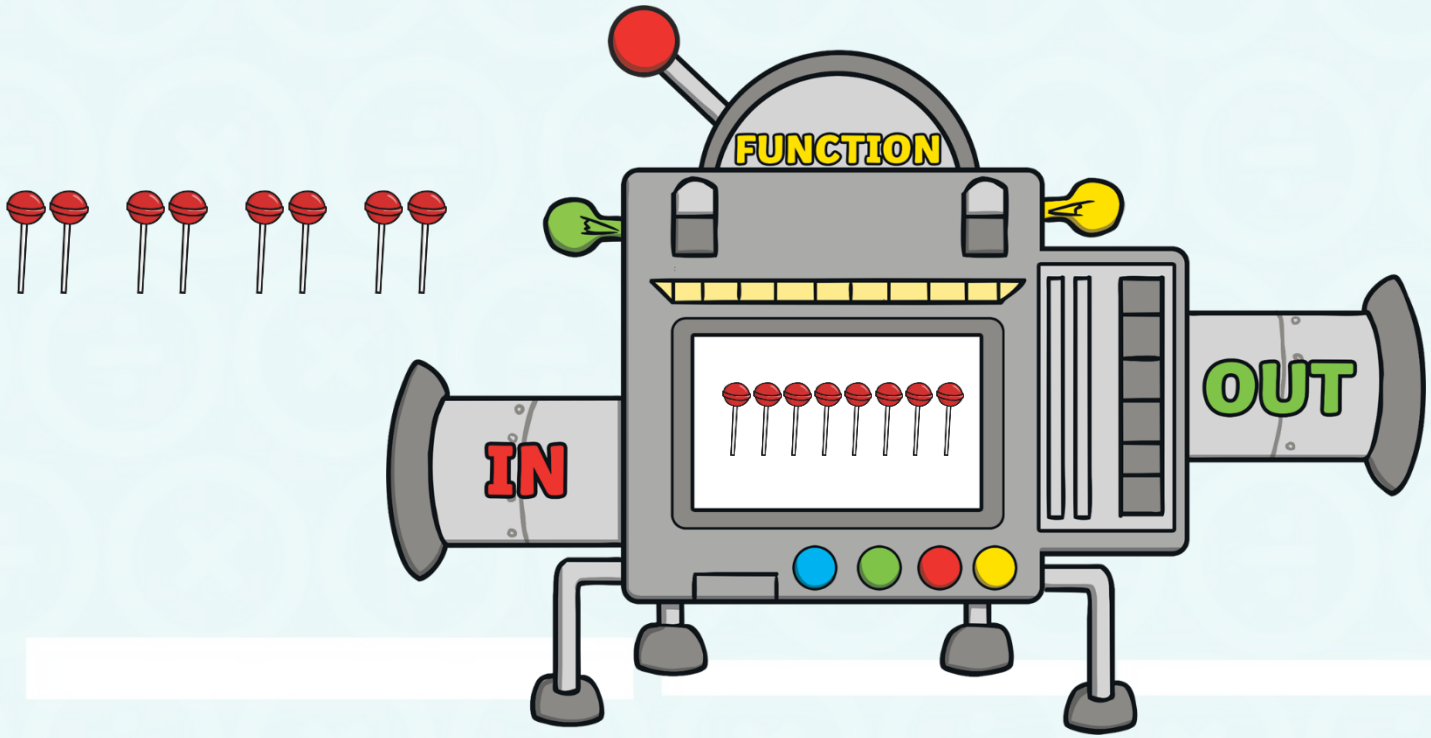


Matilda's Puzzle

Whole Class

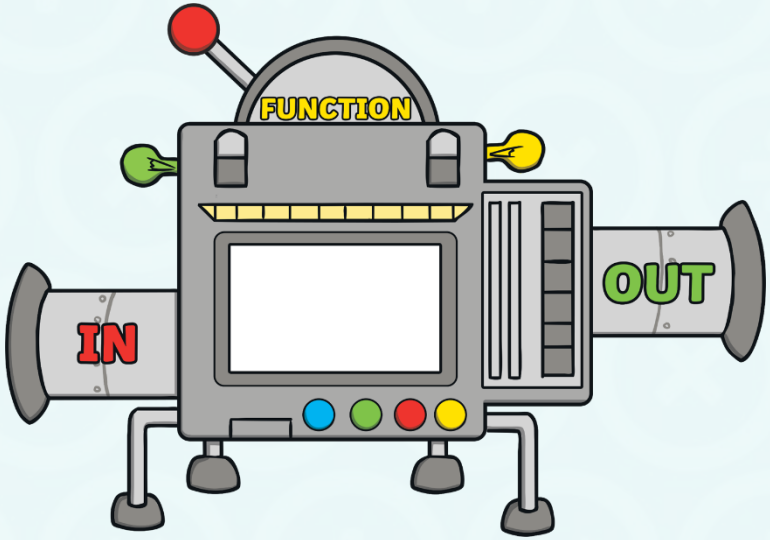


What number sentence am I thinking of?



Matilda's Puzzle

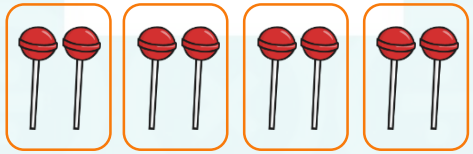
Hang on – that was addition.
I thought Matilda was a multiplying machine?



Can you explain why Matilda was able to solve:
2 + 2 + 2 + 2 = ?

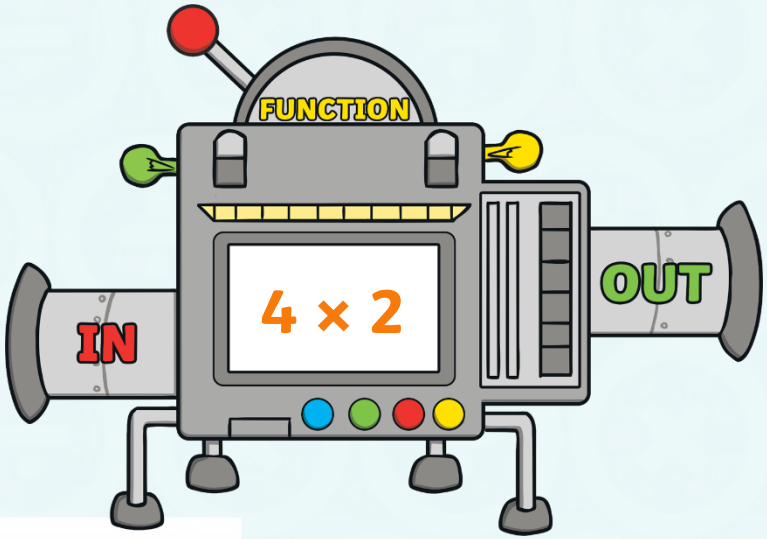
Matilda's Puzzle

There are 4 groups of 2.



We could write this as 4 × 2 =

4 × 2



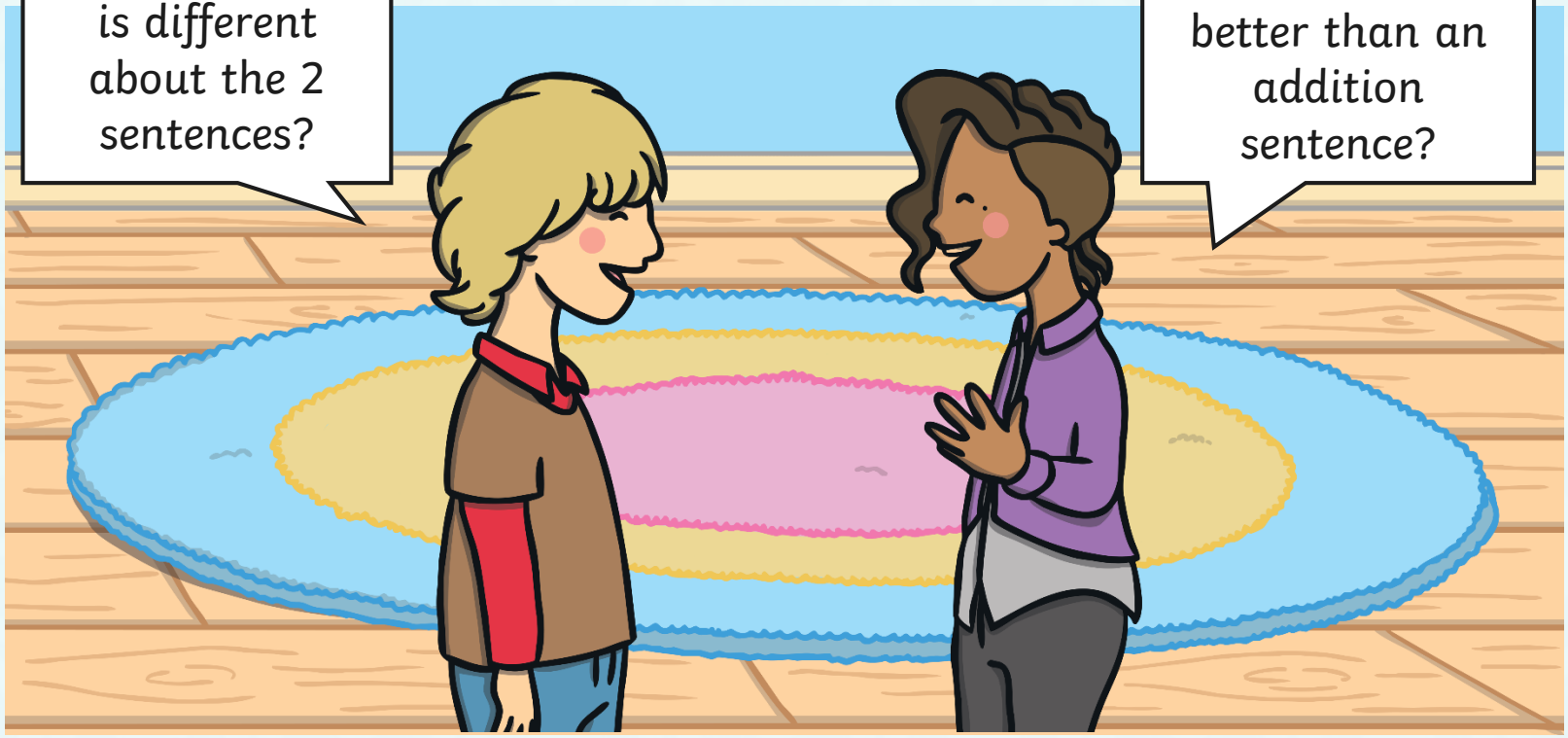
Matilda could do this because repeated addition is just like multiplying.

Matilda's Puzzle

Whole Class

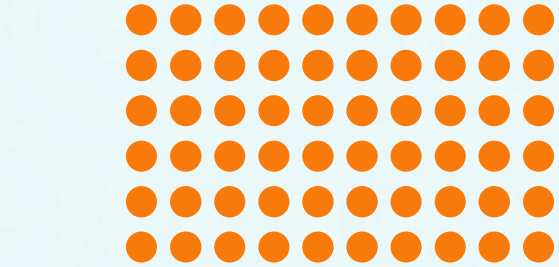
$2 + 2 + 2 + 2 =$

$4 \times 2 =$

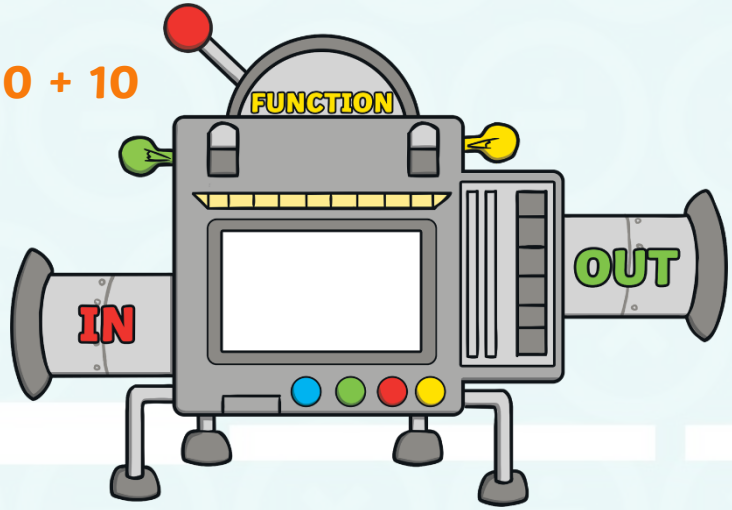


What Am I Thinking Of?

Write 2 sentences to put into my machine for what you see here.



10 + 10 +6 1 8 10 10 + 10 + 10



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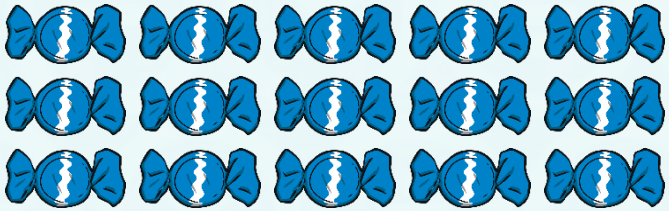
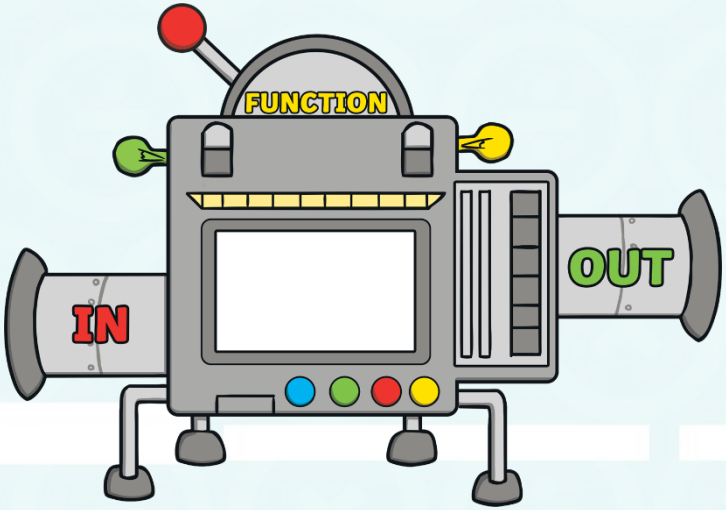


53 + 55 + 5

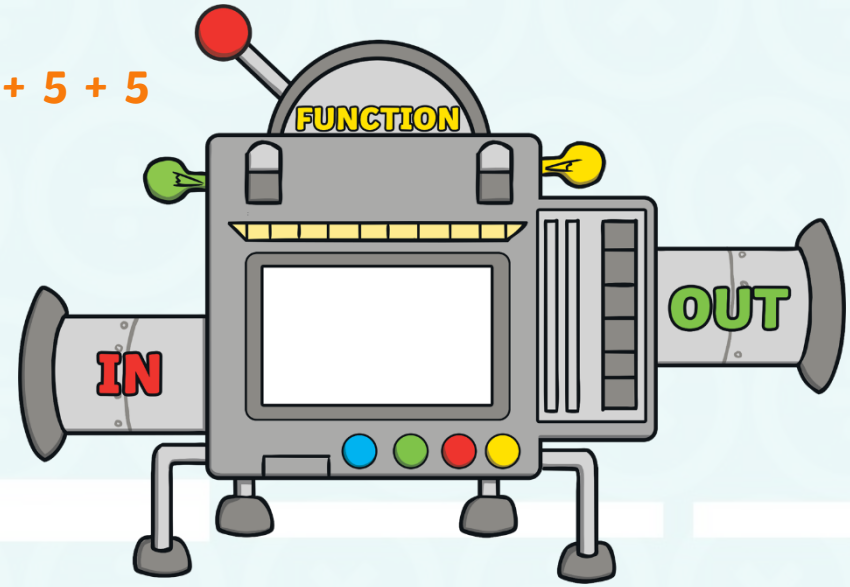


What Am I Thinking Of?

Write 2 sentences to put into my machine for what you see here.

I bake some buns. I put 5 buns in each box and fill 8 boxes.
How many buns do I bake?

5 + 5 + 5 ~~8 x 5~~ 5 + 5 + 5 + 5

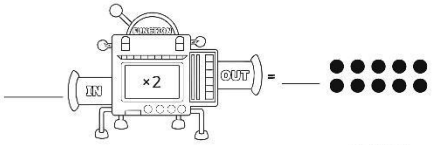


Matilda's Multiplication

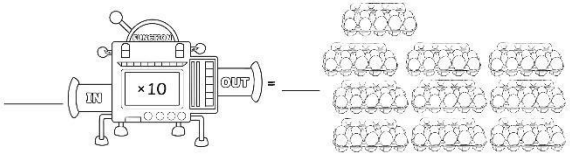
Matilda's Multiplication

I can calculate mathematical statements for the 2, 5 and 10 times tables.

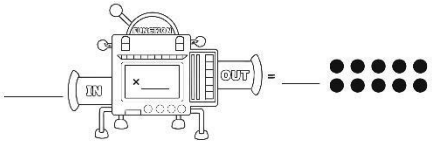
Fill in the number sentences to match Matilda's clue.

1. 

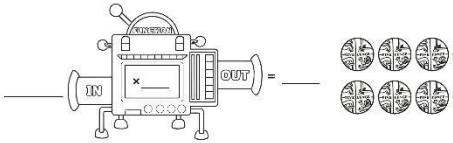
= ____

2. 

= ____

3. 

= ____

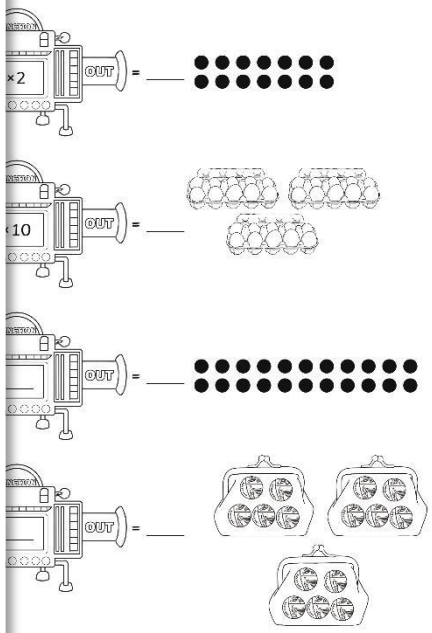
4. 

= ____

ilda's Multiplication

athematical statements for the 2, 5 and 10 times tables.

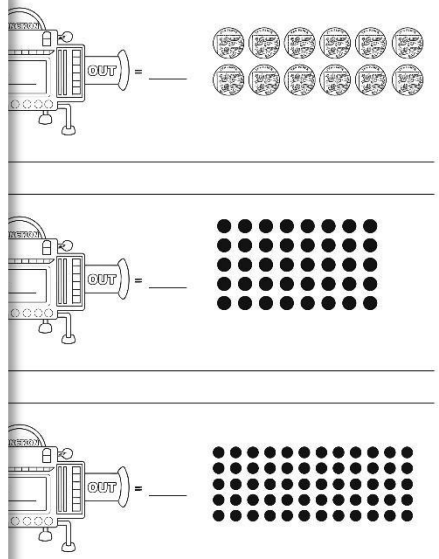
number sentences to match Matilda's clue.



ilda's Multiplication

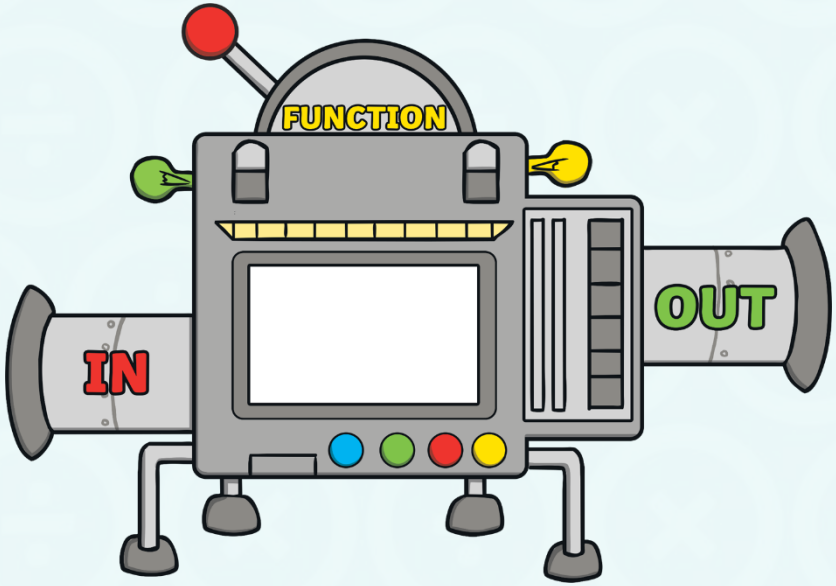
athematical statements for the 2, 5 and 10 times tables.

tences to match Matilda's clue, then write a puzzle for



Final Puzzle

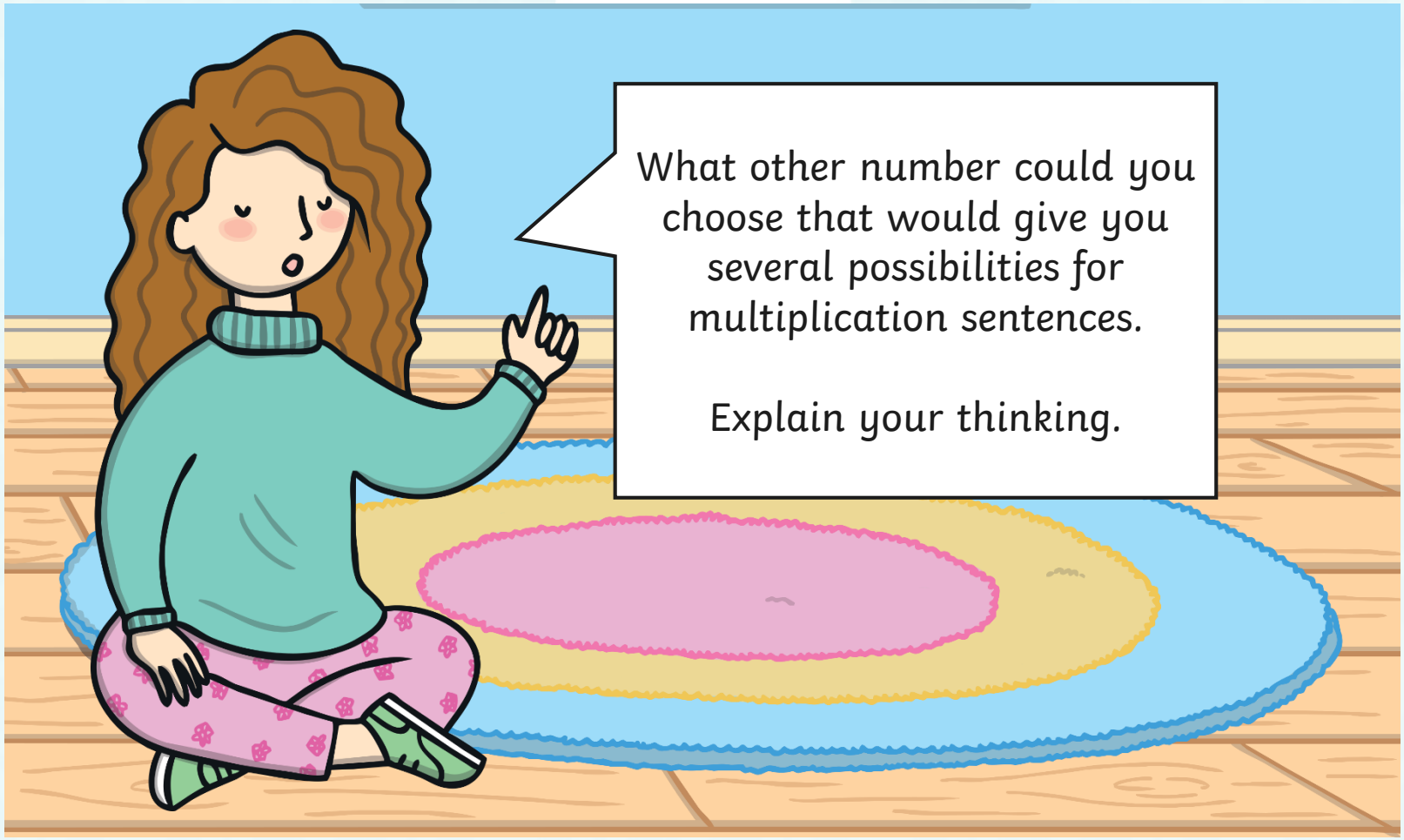
Matilda is showing the answer.
What multiplication question do you think she put in?



$2 \times 10 =$
$10 \times 2 =$
$4 \times 5 =$

You could also have $1 \times 20 = 20$.

Final Puzzle



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