

White

**Rose
Maths**

Year 3

Multiplication & Division

Whitney says,



8×8 is greater than
two lots of 4×8

Do you agree?

Can you prove your answer?

True or false?

$$6 \times 7 < 6 + 6 + 6 + 6 + 6 + 6 + 6$$

$$7 \times 6 = 7 \times 3 + 7 \times 3$$

$$2 \times 3 + 3 > 5 \times 3$$

Can you find three different ways to complete each number sentence?

$$\underline{\quad} \times 3 + \underline{\quad} \times 3 < \underline{\quad} \div 3$$

$$\underline{\quad} \div 4 < \underline{\quad} \times 4 < \underline{\quad} \times 4$$

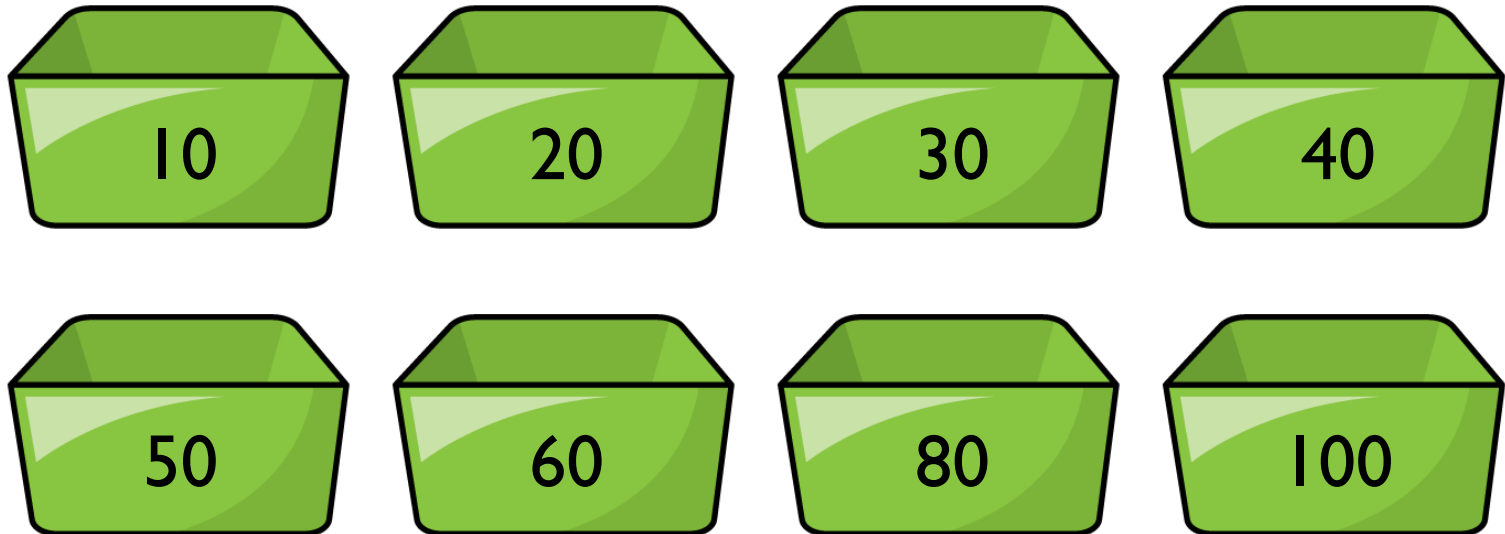
$$\underline{\quad} \times 8 > \underline{\quad} \div 8 > \underline{\quad} \times 8$$



I know that when multiplying 3 by 40, 40 is ten times bigger than 4, so my answer will be ten times bigger than 3×4

Is Mo correct?
Explain your answer.

Rosie has 240 cakes to sell.
 She puts the same number of cakes in each box and has no cakes left over.
 Which of these boxes could she use?



True or false?

$$5 \times 30 = 3 \times 50$$

Prove it.

Alex completes the calculation:

$$43 \times 2$$

Can you spot her mistake?

	T	O
	4	3
×		2
<hr/>		
		6
+		8
<hr/>		
	1	4

Teddy completes the same calculation as Alex.
Can you spot and explain his mistake?

	T	O
	4	3
×		2
8	0	6

Dexter says,



$$4 \times 21 = 2 \times 42$$

Is Dexter correct?

Always, Sometimes, Never?

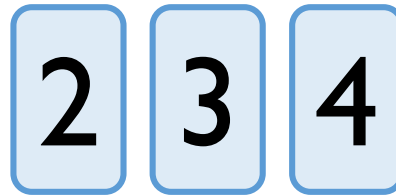
A two-digit number multiplied
by a one-digit number
has a two-digit product.

Explain the mistake.

H	T	O
	2	7
×		3
6	2	1

How close can you get to 100?


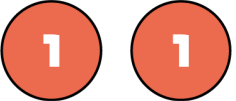

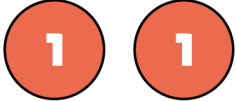
Use each digit card once in the multiplication.



$$\square \square \times \square =$$

Teddy answers the question $44 \div 4$ using place value counters.



Tens	Ones
	
	

Is he correct?

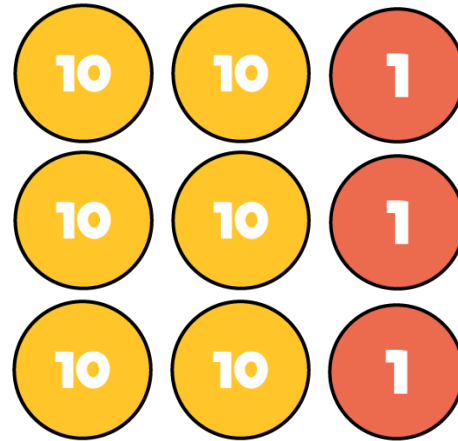
Explain your reasoning.










Dora thinks that 88 sweets can be shared equally between eight people.

Is she correct?

Alex uses place value counters to help her calculate $63 \div 3$



Tens	Ones
	 
	 
	 

She gets an answer of 12
Is she correct?

Compare the statements using $<$, $>$ or $=$

$$48 \div 4 \quad \bigcirc \quad 36 \div 3$$

$$52 \div 4 \quad \bigcirc \quad 42 \div 3$$

$$60 \div 3 \quad \bigcirc \quad 60 \div 4$$

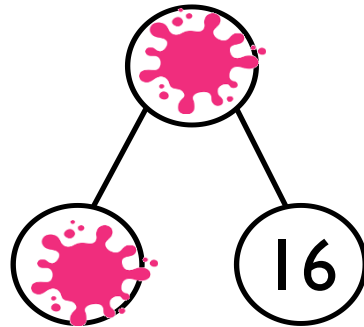
Amir partitioned a number to help him divide by 8

Some of his working out has been covered with paint.

What number could Amir have started with?



$$\text{[Painted Number]} \div 8$$



Which calculation is the odd one out?
Explain your thinking.

$$64 \div 8$$

$$77 \div 4$$

$$49 \div 6$$

$$65 \div 3$$

Jack has 15 stickers.



He sorts his stickers into equal groups but has some stickers remaining.

How many stickers could be in each group and how many stickers would be remaining?

Dora and Eva are planting bulbs.
They have 76 bulbs altogether.

Dora plants her bulbs in rows of 8 and has 4 left over.
Eva plants her bulbs in rows of 10 and has 2 left over.

How many bulbs do they each have?

Dora says Mo's tower is 3 times taller than her tower.
 Mo says his tower is 12 times taller than Dora's tower.
 Who do you agree with?
 Explain why?



Dora's
tower

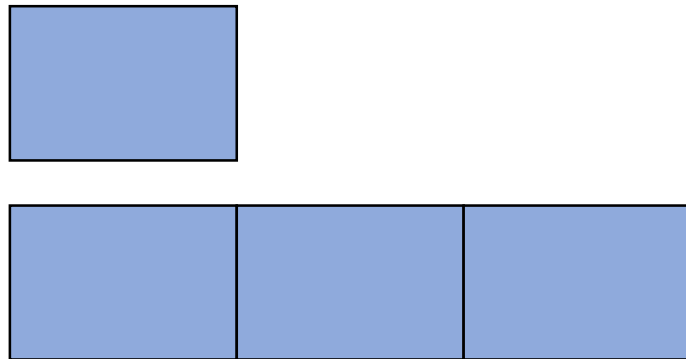


Mo's
tower

In a playground there are 3 times as many girls as boys.

There are 30 girls.

Label and complete the bar model to help you work out how many boys there are in the playground.



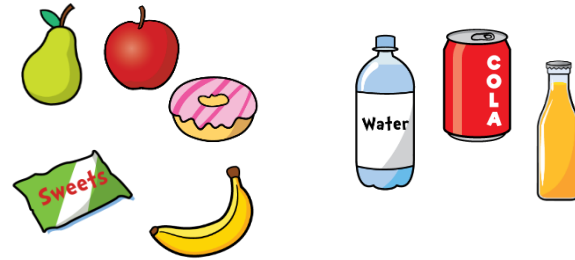
A box contains some counters.

There are twice as many green counters as pink counters.

There are 18 counters in total.

How many pink counters are there?

Eva chooses a snack and a drink.



What could she have chosen?

How many different possibilities are there?

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

There are possibilities.

How many of the ways contain an apple?

Jack has some jumpers and pairs of trousers.

He can make 15 different outfits.

How many jumpers could he have and how many pairs of trousers could he have?