22.1.21

LI: To apply my knowledge to solve reasoning problems

1.

Spot the mistake

Alex and Dexter have both completed the same multiplication.

Alex

	H	T	O
	2	3	4
×			6
1	2	0	4
	2	2	

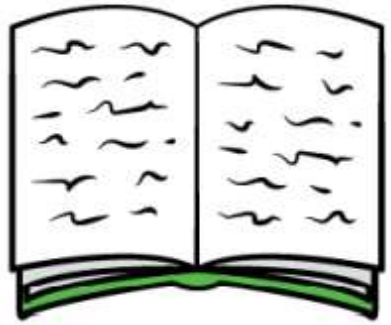
Dexter

	H	T	O
	2	3	4
×			6
1	4	0	4
	2	2	

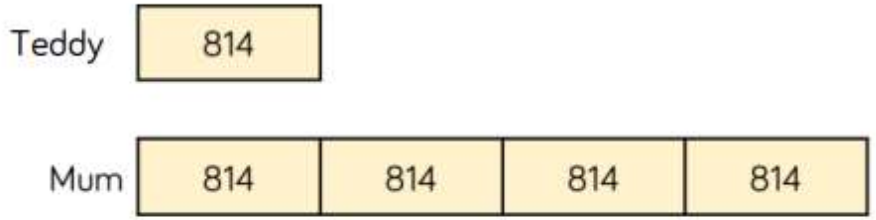
Who has the correct answer?
What mistake has been made by one of the children?

2.

Teddy and his mum were having a reading competition.
In one month, Teddy read 814 pages.



His mum read 4 times as many pages as Teddy.
How many pages did they read altogether?
How many fewer pages did Teddy read?
Use the bar model to help.



3.

Compare the statements using <, > or =

$48 \div 4$ ◯ $36 \div 3$

$52 \div 4$ ◯ $42 \div 3$

$60 \div 3$ ◯ $60 \div 4$

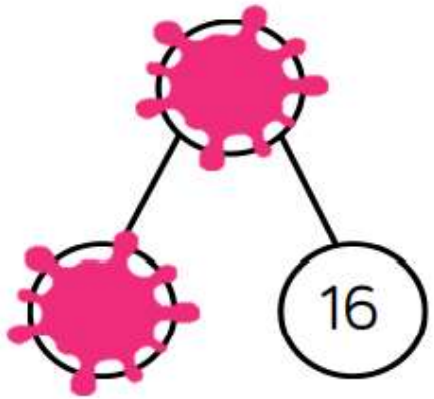
4.

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?

÷ 8



5.

Dora is calculating $72 \div 3$
Before she starts, she says the calculation will involve an exchange.

Do you agree?
Explain why.

Use $<$, $>$ or $=$ to complete the statements.

$69 \div 3 \bigcirc 96 \div 3$

$96 \div 4 \bigcirc 96 \div 3$

$91 \div 7 \bigcirc 84 \div 6$

6.

Eva has 96 sweets.
She shares them into equal groups.
She has no sweets left over.
How many groups could Eva have shared her sweets into?

7.

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

$64 \div 8$	$77 \div 4$
$49 \div 6$	$65 \div 3$

8.

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?