

Year 4 Reasoning and Problem Solving

Here are three incorrect multiplications.

	T	O
	6	1
x		5
<hr/>		
	3	5

	T	O	
	7	4	
x		7	
<hr/>			
	4	9	8

	T	O	
	2	6	
x		4	
<hr/>			
	8	2	4

Correct the multiplications.

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

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

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

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

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?

Hint: There are 6 possible answers

1. A bus driver has £342 at the end of his day, if all tickets were £3, how many people have ridden on his bus today?
2. The children of Dove Primary School have their sports day today. There are 362 children in the school. How many teams will there be if they are sorted into teams of 3 children? Will there be any children who are not in a team of 3?
3. Hats : £18 Sunglasses : £26
How much would it cost to buy 5 hats and 8 pairs of sunglasses?
4. James gets 3 sessions of trampolining for £17. How much would 12 sessions cost?

Answers

	T	O
	6	1
x		5
3	0	5
3		

	T	O
	7	4
x		7
5	1	8
2		

	T	O
	2	6
x		4
1	0	4
2		

<	<	<
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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?

Possible answers

$$96 \div 1 = 96$$

$$96 \div 2 = 48$$

$$96 \div 3 = 32$$

$$96 \div 4 = 24$$

$$96 \div 6 = 16$$

$$96 \div 8 = 12$$

- $342 \times 3 = 1026$
- $362 \div 3 = 120r2$ 120 groups of 3 and 1 group of 2
- $18 \times 5 = 90$ $26 \times 8 = 208$ $208 + 90 = 298$
- $12 \div 3 = 4$ $17 \times 4 = 68$