

To compare statements using the symbols $<$, $>$ and $=$ - Questions

1. Model each statement using maths equipment and compare their value using $<$, $>$ or $=$.

- | | |
|-----------------|---------------|
| a. 3×8 | 6×4 |
| b. $30 \div 5$ | $40 \div 4$ |
| c. 7×4 | 10×3 |
| d. $32 \div 8$ | $24 \div 6$ |
| e. 6×6 | 8×4 |
| f. $36 \div 12$ | $36 \div 9$ |

2. a. $7 \times 5 > 5 + 5 + \dots$

Using only the number 5, how many ways can you complete the statement for it to be true?

b. $7 \times 6 = 7 \times \underline{\quad} + 7 \times \underline{\quad}$

Which number can be used twice to complete this statement?

c. $8 \times 8 = 2 \times 4 \times 8$

Is this statement true or false? Can you prove it?

d. $9 \times 4 > \underline{\quad} \times 3$

What is the largest possible number you can use so that this statement is true?

3. Find two different ways to complete these number sentences:

a. $\underline{\quad} \div 3 < \underline{\quad} \times 3 < \underline{\quad} \times 3$

b. $\underline{\quad} \times 6 > \underline{\quad} \div 6 < \underline{\quad} \times 6$

c. $\underline{\quad} \div 5 < \underline{\quad} \times 5 > \underline{\quad} \times 5$

d. $\underline{\quad} \times 8 > \underline{\quad} \div 8 < \underline{\quad} \times 8$

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- Answers

Question No.	Question	Answer
1	a. 3×8 6×4 b. $30 \div 5$ $40 \div 4$ c. 7×4 10×3 d. $32 \div 8$ $24 \div 6$ e. 6×6 8×4 f. $36 \div 12$ $36 \div 9$	a. = b. < c. < d. = e. > f. <
2	a. $7 \times 5 > 5 + 5 + \dots$ Using only the number 5, how many ways can you complete the statement for it to be true? b. $7 \times 6 = 7 \times ? + 7 \times ?$ Which number can be used twice to complete this statement? c. $8 \times 8 = 2 \times 4 \times 8$ Is this statement true or false? Can you prove it? d. $9 \times 4 > ? \times 3$ What is the largest possible number you can use so that this statement is true?	a. There are 4 possible ways to complete the statement: $5 + 5 + 5$, $5 + 5 + 5 + 5$, $5 + 5 + 5 + 5 + 5$ or $5 + 5 + 5 + 5 + 5 + 5$ b. 3 c. It is true. One way to prove it is by drawing an array 8×8 and two arrays 4×8 d. 11
3	Find two different ways to complete these number sentences: a. $? \div 3 < ? \times 3 < ? \times 3$ b. $? \times 6 > ? \div 6 < ? \times 6$ c. $? \div 5 < ? \times 5 > ? \times 5$ d. $? \times 8 > ? \div 8 < ? \times 8$	Possible answers include: a. $6 \div 3 < 1 \times 3 < 2 \times 3$ $9 \div 3 < 2 \times 3 < 3 \times 3$ b. $1 \times 6 > 30 \div 6 < 2 \times 6$ $2 \times 6 > 66 \div 6 < 3 \times 6$ c. $5 \div 5 < 2 \times 5 > 1 \times 5$ $10 \div 5 < 3 \times 5 > 2 \times 5$ d. $1 \times 8 > 8 \div 8 < 1 \times 8$ $2 \times 8 > 16 \div 8 < 1 \times 8$