Comparing Statements

Whitney says,

> 8 × 8 is greater than two lots of 4 × 8
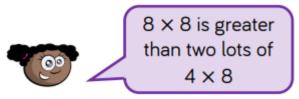
Do you agree?
Can you prove your answer?

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?

___ × 3 + ___ × 3 < ___ ÷ 3

___ ÷ 4 < ___ × 4 < ___ × 4

___ × 8 > ___ ÷ 8 > ___ × 8

Whitney says,

8 × 8 is greater than two lots of 4 × 8

Do you agree?
Can you prove your answer?

Possible answer:
She is wrong because they are equal.

True or false?

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

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

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

False

True

False

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

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

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

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

Possible answers include:

$1 \times 3 + 1 \times 3 < 21 \div 3$
$1 \times 3 + 1 \times 3 < 24 \div 3$
$1 \times 3 + 1 \times 3 < 27 \div 3$

$24 \div 4 < 8 \times 4 < 12 \times 4$
$16 \div 4 < 5 \times 4 < 7 \times 4$
$8 \div 4 < 3 \times 4 < 4 \times 4$

$4 \times 8 > 88 \div 8 > 1 \times 8$
$2 \times 8 > 80 \div 8 > 1 \times 8$
$6 \times 8 > 96 \div 8 > 1 \times 8$