

19. Multiplication and Scaling

Multiplying by a number **greater than 1** makes the result **larger**

Multiplying by a number **equal to 1** keeps the result **unchanged**

Multiplying by a number **less than 1** makes the result **smaller**

a)

$$6 \times 2/3 = 6 \times (1 - 1/3) = 6 - 6 \times 1/3 < 6$$

$$4 \times 5/4 = 4 \times (1 + 1/4) = 4 + 4 \times 1/4 > 4$$

$$8 \times 3/3 = 8 \times 1 = 8$$

$$10 \times 1/4 = 10 \times (1 - 3/4) = 10 - 10 \times 3/4 < 10$$

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b)

$5 \times 3/2$, Is the result greater or less than 5?

$$5 \times 3/2 = \text{[]}$$

c)

$7 \times 4/7$, Is the result greater or less than 7?

$$7 \times 4/7 = \text{[]}$$

d)

$9 \times 5/5$, Is the result greater or less than 9?

$$9 \times 5/5 = \text{[]}$$

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e)

$6 \times 1/3$, Is the result greater or less than 6?

$$6 \times 1/3 = \boxed{}$$

f)

$3 \times 7/6$, Is the result greater or less than 3?

$$3 \times 7/6 = \boxed{}$$