

Multiplying and Dividing Integers

\*When multiplying or dividing two integers with the same sign, the answer will always be positive

$$5 \cdot 7 = 35 \quad -2 \cdot -12 = 24$$

$$-18 \div -3 = 6 \quad 55 \div 11 = 5$$

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\*When multiplying or dividing two integers with different signs, the answer will always be negative

$$5 \cdot (-12) = -60 \quad -2 \cdot 14 = -28$$

$$5(-12)$$

$$-33 \div 3 = -11 \quad 100 \div (-20) = -5$$

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Practice:

$$1. -3 \cdot 5 = -15 \checkmark \quad 4. -7 \cdot 8 = -56 \checkmark$$

$$2. -50 \div 10 = -5 \checkmark \quad 5. 7 \cdot 8 = 56 \checkmark$$

$$3. -16 \div 2 = +8 \checkmark \quad 6. -30 \cdot (-8) = 240 \checkmark$$

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What is the sign of the answer??

$$-2(3)(-5)(-2)(-4)(5) =$$

+

Rule:

multiplying and dividing

Even # of  
negatives,  
answer is

Positive

Odd # of  
negatives,  
answer is

negative

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What is the sign of the answer??

$$-5(-2)(-1)(2)(-4)(-3) =$$

negative

Rule:

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What about ...???

$$-2(5)(-3)(-1) = \text{ or } 3(-2)(-1)(4) =$$

-30

+24

$$-2(5)(-3)(-1) =$$

$$\downarrow$$

$$-10(-3)(-1) =$$

$$\downarrow$$

$$30(-1) = -30$$

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Solve the expressions below:

1.  $-2(-3)(5)(-1) =$

$\checkmark$   $-30$

2.  $-4(2)(-2)(-1)(-5) =$

$\checkmark$   $80$

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[http://www.sheppardsoftware.com/mathgames/integers/FS\\_Integer\\_multiplication.htm](http://www.sheppardsoftware.com/mathgames/integers/FS_Integer_multiplication.htm)

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Warm up Thursday 9/7

a)  $4 + (-1) + 5 + (-12)$

$4 - 1 + 5 - 12 = -4$

b)  $-12 + (-2) + (-12) + (-1)$

$-12 - 2 - 12 - 1 = -27$

Sep 7-10:34 AM