Chapter 2.3: Multiplying and Dividing Real Numbers

Rules: Negative x or ÷ Positive = Negative
Negative x or ÷ Negative = Positive
OR
If you have an **ODD** number of negative signs in the problem, **Negative** answer.

If you have an **EVEN** number of negative signs in the problem, **Positive** answer.

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Ex1a) 4 (-9)

b) -7(-12)

c) (-¾) (−½)

d) (−0.6)(0.9)

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Ex2a) (-5)(-8)(3)

b) (-6)(0.7)(8)

c) $\frac{(-3)(-2)(-1)}{3}$

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Try these

Grade: «grade»
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1 **(-5)(2)(4)**

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2 **4(-0.2)(-5)**

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3 **(-1/2)(-4/5)(-1)**

give answer as a fraction.

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Ex2) Evaluating an Expression:
m = -4, n = 3, and p = -1

a)3m - n

b) $4n^3 \cdot m$

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Try) Evaluating an Expression:
m = -4, n = 3, and p = -1

4 -m - 4p

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Ex3) Multiplying Matrices

$$-6\begin{bmatrix} 5 & -1 \\ -2 & 3 \\ 8 & -4 \end{bmatrix}$$

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Dividing

Ex4a) $10 \div (-2)$

Ex4b) $-5 \div (-25)$

Ex4c) $-45 \div \frac{5}{6}$

Ex4d) $\frac{2\frac{1}{4}}{-4}$

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Evaluate the expression.

Ex6a) ¾w – 7, when w = 1 1/3

Ex6b) $\frac{3x}{8y} + z$, when x = 1/4, y = -0.5, z = –1

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5 $4x^3 - \frac{2z}{x}$, when x = -2, y = 3, and z = 3.5

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