Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**CFS for top quality work**

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Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

UNIT 2 LESSON 9

**AIM**: SWBAT multiply and divide rational numbers

In my own words this means I will be able to…

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\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**THINK ABOUT IT!**

Evaluate each expression using the number line provided.

3 x (-6.2)



-2 ½ ÷ (-½)



How could you find the product or quotient without a number line? Why?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Key Point

|  |
| --- |
| Integer \_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_rules apply to all rational numbers |

**Interaction with New Material**

Ex. 1) Evaluate the expression 50.4 ÷ (-2.4)

**CFS for top quality work**

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Ex. 2) Evaluate the expression $-\frac{4}{5}×\left(-3.5\right)$

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**PARTNER PRACTICE**

|  |
| --- |
| *Bachelor Level* |

1. What is the quotient of 31.5 divided by (-1.5). Use estimation to show your answer is reasonable.

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1. Evaluate: $ -\frac{5}{6} · -\frac{3}{5}$ . Use estimation to show your answer is reasonable.

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|  |
| --- |
| *Master Level* |

1. Evaluate: $(-\frac{3}{4} )\left(-2\frac{1}{4}\right)÷\left(-\frac{3}{5}\right)$. Use estimation to show your answer is reasonable.
2. Evaluate $-5×\left(-1\frac{1}{3}-\frac{7}{9}\right)$. Use estimation to show your answer is reasonable.

**INDEPENDENT PRACTICE**

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| --- |
| *Bachelor Level* |

1. Evaluate the expression and use estimation to prove your answer is reasonable.

$$-3\frac{4}{5}÷2\frac{2}{5}$$

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1. Evaluate the expression and use estimation to prove your answer is reasonable.

$$-25.1×(-4.8)$$

**CFS for top quality work**

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|  |
| --- |
| *Master Level* |

1. What is the product of -4.5, -8 ½, and -2.25?
2. Evaluate the expression and use estimation to prove your answer is reasonable.

$$-2\frac{1}{4} · \left(-3\frac{3}{5}\right)÷\frac{3}{4}$$

1. Evaluate the expression and use estimation to prove your answer is reasonable.

$$\left(9\frac{1}{5}\right)\left(-0.7\right)+3.8$$

1. What will be the sign of *p* in the expression below? Explain your reasoning.

$$0.25×p=-5\frac{1}{2}$$

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Determine the value of *p* in question 6.

|  |
| --- |
| *PhD Level* |

1. The product of -2.4 and what number is 7.44?
2. Prove that the order matters when multiplying and dividing by first solving correctly, then solving in a different order.

$$-16.8÷(-2.8)×1.75$$

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**EXIT TICKET**

|  |  |  |  |
| --- | --- | --- | --- |
| Self-assessment | I mastered the learning objective today. | I am almost there.  | Need more practice and feedback. |
| Teacher feedback | You mastered the learning objective today. | You are almost there.  | You need more practice and feedback. |

**CFS for top quality work**

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1. What is the product of -4.2, 1.9, and -0.5?
2. Evaluate: $\left(-3\right)- \left(-4\frac{1}{2} \right)+ \left(-9.2 ÷-4\right)$ Use estimation to show that your answer is reasonable.

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