ALBERT

Name _____ Date _____

Multiplying and Dividing Integers Worksheet

Grade 7 · Common Core 7.NS.A.2

> Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers.

Practice

Builds the skill step by step.

1. Multiply: -6×4

2. Multiply: $-7 \times (-3)$

3. Divide: $36 \div (-9)$

4. What is the sign of $(-2) \times (-5) \times (-1)$?

   A. Positive

   B. Zero

   C. Negative

   D. It depends

5. Divide: $-48 \div (-8)$

6. Multiply: $0 \times (-15)$

7. Multiply: -1×13

8. Which has a positive value?

   A. -4×5

   B. $20 \div (-4)$

   C. $-4 \times (-5)$

   D. $-20 \div 4$

9. Divide: $-35 \div 7$

10. Multiply: $(-2)^2$

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On Level

Grade-level practice.

1. Multiply: $-\frac{2}{3} \times \frac{3}{4}$

2. Divide: $-\frac{4}{5} \div (-\frac{2}{5})$

3. Multiply: -1.5×2.4

4. Which expression equals $-\frac{3}{4}$?

   A. $-3 \div (-4)$

   B. $\frac{-3}{4}$

   C. $\frac{-3}{-4}$

   D. $3 \div 4$

5. Evaluate: $(-3)^3$

6. Divide: $7.2 \div (-0.8)$

7. Evaluate: $-4 \times (-2) \times (-3) \div 6$

8. A stock falls \$1.25 per day for 4 days. Which number shows the total change?

   A. 5

   B. -1.25

   C. -5

   D. -0.3125

9. Multiply: $-\frac{5}{6} \times (-\frac{9}{10})$

10. Divide: $-\frac{1}{2} \div 4$

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Challenge

Multi-step and word problems that stretch it.

1. A diver descends at 3.5 feet per second. What is her change in depth after 12 seconds, as a signed number?

2. Evaluate: $(-2)^4 - 2^4$

3. The temperature dropped 18 degrees over 6 hours at a steady rate. What was the change per hour?

4. If x is negative, which is always positive?

   A. x^3

   B. $2x$

   C. $x \div 2$

   D. x^2

5. Evaluate: $-\frac{3}{8} \times 16 \div (-\frac{1}{2})$

6. Ty says $-8 \times (-2) = -16$ because "negative times anything is negative." What is wrong, and what is the correct product?

7. A bank account changes by $-\$15.75$ each month for 6 months. What is the total change?

8. Evaluate: $(-6 + 2) \times (-3) \div (-2)$

9. Find a number that, multiplied by $-\frac{4}{9}$, gives $\frac{8}{3}$.

10. How many negative factors are in a product that is positive and has 5 factors, none of them 0? Give every possible count.