Multiply & Divide Integers

7th Grade Math

1. -2 • 4 =

3.
$$4 \cdot -11 =$$

$$10. -9^2 =$$

11.
$$(-4)^2 =$$

12.
$$8^2 =$$

13.
$$x^2 =$$
 if $x = -5$

$$-15.2 + 4 \cdot -5^2 =$$

$$16. -2 \div 4 =$$

$$17. -8 \div -1 =$$

$$18.44 \div -11 =$$

$$19. -9 \div -3 =$$

$$20.-12 \div 2 =$$

$$21.10 \div -10 =$$

$$22. -48 \div 4 =$$

$$23. -24 \div -8 =$$

$$25.-45 \div 15 =$$

$$26. -15 \div 5 =$$

27.
$$80 \div -10 =$$

$$28.99 \div -11 =$$

$$29. -30 \div -5 =$$

$$30. -3^2 \div x^2 =$$
if $x = -1$



Multiplication Madness

Complete each problem and observe the patterns of integer multiplication.

7.
$$(-2 \cdot 4) \cdot -3 = 8. (-5 \cdot -2)(2 \cdot 3) =$$

11.
$$-6 \cdot -7 \cdot -1 =$$
 12. $(-5 \cdot -4) \cdot -3 =$

12.
$$(-5 \cdot -4) \cdot -3 =$$

13.
$$(-5 \cdot -1)(2 \cdot -3) =$$

16.
$$-9 \bullet -7 \bullet -1 \bullet -1 =$$
 17. $(-2)(-4)(-3)(-1) =$ 18. $(-3 \bullet -2)(-7 \bullet -1) =$

Use the conclusion you drew on the previous page to answer the following questions...

23.
$$-48 \cdot -1 \cdot -1 \cdot 1 \cdot -1 \cdot 1 =$$

24. Without solving, Anna says the value of z must be negative.

$$\frac{-184}{152} \times \frac{-86}{120} \times \frac{54}{89} \times \frac{-749}{126} = z$$

Is Anna correct? Explain why or why not.

25. Without solving, Drew says the value of z must be negative.

$$\frac{-187}{152} \times \frac{86}{126} \times \frac{-54}{140} \times \frac{49}{126} = z$$

Is Drew correct?

Choose the answer below that best describes why Drew is or is not correct?

- a. Yes, because the difference of an even number of negative numbers is positive.
- b. No, because the difference of an even number of negatives number sis positive.
- c. No, because the product of an even number of negative number sis positive.
- d. Yes, because the product of an even number of negative number is positive.
- 26. In the expression $p \times q$, p > 0 and q > 0. What must be true?
 - a. $p \times q$ will always be negative.
 - b. $p \times q$ may be positive or negative, depending on which number has the larger absolute value.
 - c. $p \times q$ will always be positive.
 - d. Not enough information provided.