

**d o N O W**

**Circle the mistake and solve the problem correctly.**

**Problem 1**

$$24 \div -6 \div 3$$

$$\swarrow \quad \searrow$$

$$24 \div -2$$

$$\swarrow \quad \searrow$$

$$-12$$

**Problem 2**

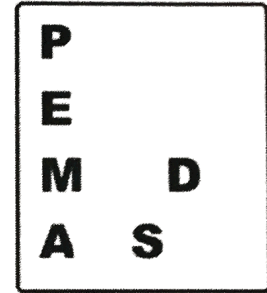
$$-20 + 6 \times (-2)$$

$$\swarrow \quad \searrow$$

$$-14 \times (-2)$$

$$\swarrow \quad \searrow$$

$$28$$



**Evaluating Numerical Expressions**

a)  $2 + (-6) \times 3$

b)  $-4 \times 3 + (-5)$

c)  $-3 \times 8 \div (-5 - 3)$

d)  $-26 \div 2 - 3(4)$

e)  $12 - (3 - 5)^2 + 36 \div 9$

**Evaluating Algebraic Expressions**

Evaluate the following expressions when  $x = 5$ ,  $y = -6$ , and  $z = -4$

a)  $xy - z$

b)  $xy - xyz$

c)  $x + y - z$

d)  $xy \div |z + 1|$

e)  $\left(\frac{x-z}{3}\right)^2$

Procedure:

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### Recap of Integers

Let  $x = -4$ . Evaluate each expression.

1)  $x$

2)  $|x|$

3)  $-x$

4)  $x^2$

5) If  $|x| = 5$ , what are the possible values of  $x$ ?

6) If  represents +1 and  represents -1, together they sum to \_\_\_\_\_.

Evaluate each expression when  $a = 8$  and  $b = -2$ .

7)  $a + (-14)$

8)  $-a - b$

9)  $-7b$

10)  $a \div (-b)$

*The*  
**TAKEAWAY**

The \_\_\_\_\_ apply to all positive and negative real numbers.