Integers

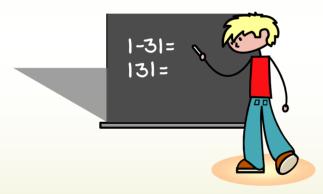
Practice

Absolute Value Comparing Integers Adding Integers Subtracting Integers Adding and Subtracting Integers Multiplying Integers Dividing Integers

Absolute Value

Problem #1: Fill in the blanks.

|-3| = ____ and the |3| = ____.



Hint: The absolute value of a number is its distance from zero on a number line.

Comparing Integers

Problem #2: Solve.

Replace the o with < , > , or = to make a true statement.

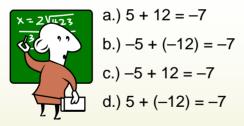


a.) <	
b.) >	<i>Hint:</i> Use a number line. The number to the left is always less.
c.) =	

Adding Integers

Problem #3: Select the correct addition sentence represented by the illustration below.

$$\{\dots -10, -9, -8, \bigcirc 7, -6, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10\dots\}$$



Hint 1: Start at 0 and count right 5.

Hint 2: Count from 5 back to -7.

Subtracting Integers

Problem #4: Select the correct subtraction sentence represented by the illustration below.

$$-12$$

$$\{ \dots -10, -9, -8, -7, -6, -5, 4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 \dots \}$$



Adding and Subtracting Integers

Problem #5: Find the sum. -2 + 9 =

Hint for Problem #5: When adding integers with different signs, subtract and express the answer with the sign of the integer farthest from 0 on the number line.

Problem #6: Find the difference. -3 - (-9)-3 + 9 =

Hint for Problem #6: Switch to add. Change the sign of the second number to its opposite, and then use the addition rules for adding integers.

Multiplying Integers

Problem #7: Find the product. -24×36

-24 × 36 =

Hint for Problem #7: When multiplying integers with **different signs**, **multiply** and the answer will be **negative**.

Problem #8: Find the product. -22×-17

−22 × −17 =

Hint for Problem #8: When multiplying integers with same signs, multiply and the answer will be positive.

Dividing Integers

Problem #9: Find the quotient. $51 \div -3$

51 ÷ –3 =

Hint for Problem #9: When dividing integers with **different signs, divide** and the answer will be **negative**.

Problem #10: Find the quotient. $-462 \div -22$ $-462 \div -22 =$ *Hint for Problem #10:* When dividing integers with same signs, divide and the answer will be **positive**.

Multiplying and Dividing Integers

Problem #11: Simplify. (-2)(6)(-3)(-4)

(-2)(6)(-3)(-4) =

Hint for Problem #11: Even number of negative signs results in a **positive** answer. Odd number of negative signs results in a **negative** answer.

Problem #12: Write two related division statements for: $-3 \times 7 = -21$

-21÷7=	<i>Hint 1 for Problem #12:</i> When dividing integers with different signs , divide and the answer will be negative .
-21÷-3=	<i>Hint 2 for Problem #12:</i> When dividing integers with same signs, divide and the answer will be positive.

Answers

Problem #1: 3, 3

Problem #2: Choice "a".

Problem #3: Choice "d".

Problem #4: Choice "b".

Problem #5: 7

Problem #6: 6

Problem #7: -864

Problem #8: 374

Problem #9: -17

Problem #10: 21

Problem #11: -144

Problem #12: -21/7 = (-3); -21/(-3) = 7

