

Name _____

Due Date _____ Period _____

Study Guide: Integers

1 A negative number minus a negative number is Sometimes negative.

a

always

sometimes

never

$$(-) - (-)$$

$$(-) + (+)$$

2 The product of a positive integer and a negative integer is Never positive.

a

always

sometimes

never

$$(+) \cdot (-)$$

3 A positive number minus a negative integer is always positive.

a

always

sometimes

never

$$(+) - (-)$$

$$(+) + (+)$$

4 The sum of a positive integer and a negative integer is Sometimes positive.

a

always

sometimes

never

$$(+) + (-)$$

Find the sum $-9 + 3$

-6

6

Find the sum $-2 + (-24)$

7

Find the difference $15 - (-10)$ $15 + 10$

8

Find the difference $-4 - 23$ $-4 + -23$

9

Find the sum $52 + (-47)$

$$\begin{array}{r} 4 \\ 52 \\ -47 \\ \hline 5 \end{array}$$

10

Find the difference $4 - 14$ $4 + -14$

11

Find the difference $-13 - 21$ $-13 + -21$

12

Find the difference $-40 - (-70)$ $-40 + 70$

Fill in the unknown numbers to make each number sentence true.

a. $-20 \div (-2) =$

10

b. $4 \times$

-4

$= -16$

c. $\square \times -13 = 13$

-1

d. $54 \div (-9) =$

-6

e. $\square \times 3 = 0$

0

f. $-42 \div 7 =$

-6

g. $-21 \div$

-3

$= 7$

h. $9 \times$

-10

$= -90$

14

Solve

$$20 + ((-42) + (-73))$$

-95

$$\begin{array}{r} 42 \\ +73 \\ \hline 115 \end{array}$$

$$20 + -115$$

$$\begin{array}{r} 115 \\ -20 \\ \hline 95 \end{array}$$

15

Solve

$$-7 - ((-8) \cdot 2)$$

9

$$-7 - (-16)$$

$$-7 + 16$$

16

The highest temperature recorded in the town of Westgate this summer was $110^{\circ}F$. Last winter, the lowest temperature recorded was $-13^{\circ}F$. Find the difference between these extremes.

$^{\circ}F$

$$110 - (-13)$$

$$110 + 13$$

17

Miguel spends \$42 a day for 6 days. Then, he works to try to make up for what he spent, and he earns \$30 a day for 8 days. Does Miguel end up with more or less money than he started with? By how much?

Part A

Does Miguel end up with more or less money than he started with?

$$\begin{array}{r} 1 \\ -42 \\ \times 6 \\ \hline -252 \end{array}$$

$$\begin{array}{r} 30 \\ \times 8 \\ \hline 240 \end{array}$$

Part B

By how much?

\$

$$\begin{array}{r} 252 \\ - 240 \\ \hline 12 \end{array}$$