

Name: _____

Date: _____

Subtracting Integers

1. Opposites:

Numbers that are the same distance from zero, but in different directions.

2. To subtract two integers, add its opposite3. Keep the first number the same.4. Change subtraction to addition5. Change the sign of the second number.6. Simplify the expression.7. Find $-3 - 4$

[Keep the first number the same]	$-3 - (4)$
[Change subtraction to addition]	$-3 + (-4)$
[Change the sign of the second number]	$-3 + (-4) = -7$

8. Find each difference:

$-(-) \Rightarrow \text{ADD!}$

$$\begin{array}{r} -10 - (13) = \\ \downarrow \quad \downarrow \quad \downarrow \\ -10 + (-13) \\ \boxed{-23} \end{array}$$

$$\begin{array}{r} 50 - (-32) = \\ \downarrow \quad \downarrow \quad \downarrow \\ 50 + 32 \\ \boxed{82} \end{array}$$

$$\begin{array}{r} 46 - (-24) = \\ \downarrow \quad \downarrow \quad \downarrow \\ 46 + 24 \\ \boxed{70} \end{array}$$

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Practice: Subtracting Integers

#1 Find the difference:

$$4 - (-18) =$$

$$\begin{array}{c} \downarrow \downarrow \downarrow \\ [4 + (18)] = \boxed{22} \end{array}$$

#2 Find the difference:

$$87 - (96) =$$

$$\begin{array}{c} \downarrow \downarrow \downarrow \\ [87 + (-96)] = \boxed{-9} \end{array}$$

HAVE BUY SHORT

#3 Find the difference:

$$-60 - (-87) =$$

$$\begin{array}{c} \downarrow \downarrow \downarrow \\ -60 + 87 = \boxed{27} \end{array}$$

#4 Find the difference:

$$190 - (-165) =$$

$$\begin{array}{c} \downarrow \downarrow \downarrow \\ 190 + 165 = \boxed{355} \end{array}$$

$$\begin{array}{r} 190 \\ +165 \\ \hline 355 \end{array}$$

#5 Find the difference:

$$[-56 - (30)] + 12 =$$

$$\begin{array}{c} \downarrow \downarrow \downarrow \\ -56 + (-30) \\ \hline -86 \end{array}$$

$$-86 + 12 = \boxed{-74}$$

BUY HAVE SHORT

#6 Find the difference:

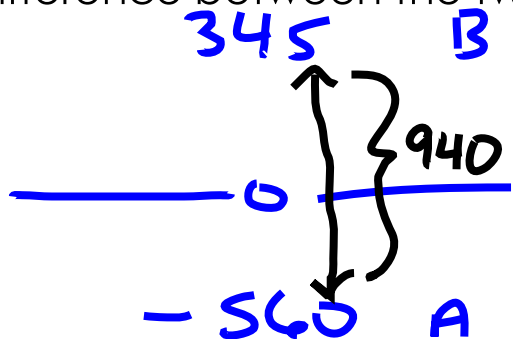
$$-456 - (56) - (-178) =$$

$$\begin{array}{c} \downarrow \downarrow \downarrow \\ -456 + (-56) \\ \hline -512 \end{array}$$

$$-512 + (178) = \boxed{-334}$$

$$\begin{array}{r} 456 \\ 56 \\ \hline 512 \end{array}$$

#7 Contestant A has -560 points. Contestant B has 345 points. What is the difference between the two contestant's points?



$$345 - (-560)$$

$$345 + 560 =$$

$$\boxed{905}$$

$$\begin{array}{r} 456 \\ 56 \\ \hline 512 \end{array}$$

$$\begin{array}{r} 4512 \\ -178 \\ \hline 334 \end{array}$$