



Label the top of the page:
2-3 Subtracting Integers

Examples: Copy these problems and their answers.

Subtract.
Add the opposite (OD) Same change change
34. $125 \underset{-}{c} \underset{(-114)}{C}$ 35. $S_{320} \underset{-}{C} \underset{(-106)}{C}$
$\downarrow \downarrow \downarrow$
$\downarrow \downarrow \downarrow$ - 106
$125+114$
$-320+106$
(239)


To find the distance between two integers, you can:

1. Use a number line:

$$
\text { Find the distance between }-3 \text { and } 7
$$


or 2: subtract and take the absolute value. Remember, distance is ALWAYS positive!

Find the distance between each pair of integers.
25. -18 and $-12 C$
26. -3 and $-11 \quad C$

$$
\begin{aligned}
& -18-(-12) \\
& -18+12 \\
& 1-6 \\
& =6
\end{aligned}
$$

$$
-3^{c}(-11)
$$

$$
-3+(+11)
$$

$$
-15-7=
$$



$$
\begin{gathered}
-15+(-7) \\
41+-7 \\
\frac{-15}{-22}+\frac{22}{22} \text { units }
\end{gathered}
$$

## To Row Row Row Your Boat

Same signs, add and keep! different signs, subtract. Keep the sign of the bigger number then you'll be exact!

Absolute Value Examples/Notes:

Examples like this:

$$
|a|+|b|=c
$$

Examples
like this:

$$
|a+b|=c
$$

- $1-7|+|-11|=18$

2) 


$80+12=92$
3) $|-12|-|15|=(3)$
$32+16=48$
(5) $|40|-|-17|=$

$$
40-17=23
$$

(1) $|-2+5|=3$
(2) $|+3|+64+7 \mid=57$
$|-57| \mid=22$
(3) $|-8+(-14)|=22$
$|22|$
(4) $|17+(-5)|=12$
$|12|$
(5) (11) $21+(-6) \mid=27$

$\frac{\text { Examples }}{s c}$

$$
\begin{aligned}
& 6^{s c}+-8=-2 \\
& \begin{array}{r}
5 c c \\
-9+-3=-12
\end{array} \\
& 4+-8=-4 \\
& \begin{array}{c}
5 c c \\
-5+2=-7
\end{array} \\
& -1{ }^{5} c+(+7)=-5 \\
& 5^{5 c}+(+10)=15 \\
& -47 \frac{c}{\downarrow} \frac{c}{\downarrow}+4= \\
& -47+-34=-81 \\
& -15 \frac{5}{5}-(-14)= \\
& -15++14=-1
\end{aligned}
$$



Find each difference. (Examples 1 and 2 )

1. $3-5$
2. $-10-14$
3. $17-(-14)$
4. $-7-(-11)$

Find the distance between each pair of integers. (Example 3)
5. -1 and -7
6. -8 and 8
7. -4 and 6
8. Moira dug a hole 2 feet deep to transplant a shrub. The shrub stands 3 feet above the ground. Write an expression to find the distance from the bottom of the hole to the top of the shrub. What is the distance? (Example 4)

## Questions?

Please work on Pg65: \#13-33.
Label it in your INB.
We will check near end of
class or when you are done.

## Name

Unit
Lesson
Due Date

## ThdependentPractice

Go online for Step-by-Step Solutic
Find each difference. (Examples 1 and 2)
9. $6-7$
10. $4-8$
13. $11-(-14)$
14. $9-(-8)$
17. $5-(-10)$
18. $1-(-18)$
21. $-20-(-30)$
22. $-38-(-40)$
11. $-12-(-x)$
15. $-5-2$
$19-15-(-$
23. $-32-28$
12. $-15-(-6)$
16. $-9-3$
20. $-12-(-11)$
24. $-47-34$

Find the distance between each pair of integers. (Example 3)
25. -18 and -12
26. -3 and -11
28. -6 and 12
29. 5 and -15
27. -15 and 7
30. 12 and -7
31. At the end of the first round of a game show, Jillian had a score of 40 points and Marty had a score of -50 points. Find the difference between their two scores. (Example 4)


