

7th Grade
Oct 5, 2020

Please get out
your examples on
subtracting
integers.

Today we will:
-Complete/review
examples from
text
-do more
examples
-start ICA



HOMEWORK:

Assignment in
ALEKS due by
11:30pm TONIGHT

Skills Practice WS



	OPERATIONS WITH INTEGERS	ADD
		SUBTRACT
		MULTIPLY
		DIVIDE

HOW DO I ADD INTEGERS WITH THE SAME SIGN?



Add their absolute values.
The sum is positive if both integers are positive.
The sum is negative if both integers are negative.
Examples: $3+4=7$ $-2+(-4)=-6$

HOW DO I ADD INTEGERS WITH DIFFERENT SIGNS?

Subtract their absolute values.
The sum is positive if the positive integer's absolute value is greater.
The sum is negative if the negative integer's absolute value is greater.
Examples: $7+(-11)=-4$ $-2+9=7$

HOW DO I SUBTRACT INTEGERS WITH THE SAME SIGN?



Add its opposite. Then follow the rules for adding.
Another way to say it is "same, change, change."
Example: $4-15=4+(-15)=-11$

HOW DO I SUBTRACT INTEGERS WITH DIFFERENT SIGNS?

Add its opposite. Then follow the rules for adding.
Two negatives next to each other make a positive!
 $18-(-2)=18+(+2)=20$
 $-5-11=-5-(+11)=-5+(-11)=-16$

HOW DO I MULTIPLY INTEGERS WITH THE SAME SIGN?



HOW DO I MULTIPLY INTEGERS WITH DIFFERENT SIGNS?

HOW DO I DIVIDE INTEGERS WITH THE SAME SIGN?



HOW DO I DIVIDE INTEGERS WITH DIFFERENT SIGNS?

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!

Examples

$$6 + -8 = -2$$

$$-9 - 3 = -12$$

$$4 - 8 = -4$$

$$-5 - 2 = -7$$

$$-12 - (-7) = -5$$

$$5 - (-10) =$$

$$5 + 10 = 15$$

$$-47 - 34 =$$

$$\begin{array}{r} 47 \\ 34 \\ \hline 81 \end{array} - 81 \text{ "it's right btw!"}$$

$$-15 - (-14) =$$



Name _____

Unit ____ Lesson ____ Due Date _____

PRACTICE

Examples to put under your subtracting integers notes:

Guided Practice

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)

Blank lined area for writing answers to the guided practice problems.



Name _____

Unit ____ Lesson ____ Due Date ____

PRACTICE

Independent Practice

Go online for Step-by-Step Solutions

Find each difference. (Examples 1 and 2)

9. $6 - 7 = -1$

10. $4 - 8 = -4$

11. $-12 - (-7) = -5$

12. $-15 - (-6) = -9$

13. $11 + (+14) = 25$

14. $9 - (-8) = 17$

15. $-5 + (-7) = -12$

16. $-9 + (-3) = -12$

17. $5 + (+10) = 15$

18. $1 - (-18) = 19$

19. $-15 - (-4) = -11$

20. $-12 - (-11) = -1$

21. $-20 - (-30) = 10$

22. $-38 - (-40) = 2$

23. $-32 - 28 = -60$

24. $-47 - (-34) = -13$

Find the distance between each pair of integers. (Example 3)

25. -18 and -12

26. -3 and -11

27. -15 and 7

28. -6 and 12

29. 5 and -15

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)

25. $-18 + +12 = -6$

26. $-3 - (-11) = 8$

27. $-15 + +7 = -8$

28. $-6 - 12 = -18$
 $|-18| = 18$

29. $5 + (+15) = 20$
 $|20| = 20$

30. $12 + +7 = 19$
 $|19| = 19$

$40 + +50 = 90$



NAME _____ DATE _____ PERIOD _____

Lesson 3 Skills Practice

Subtracting Integers

Find each difference.

$$1. -2 - (-8)$$

$$-2 + 8 = 6$$

$$2. 4 - (-11)$$

$$4 + 11 = 15$$

$$3. -7 - 6$$

$$4. 15 - 2$$

$$5. -7 - (-1)$$

$$6. 1 - 9$$

$$7. -5 - (-3)$$

$$8. 6 - (-5)$$

$$9. -4 - (-10)$$

$$10. 4 - 6$$

$$11. 0 - (-15)$$

$$12. -16 - (-10)$$

$$13. 0 - 16$$

$$14. 11 - (-9)$$

$$15. -9 - 1$$

$$16. -1 - (-8)$$

$$17. 1 - (-2)$$

$$18. -2 - (-19)$$

$$19. 13 - 17$$

$$20. 20 - (-15)$$

$$21. -10 - (-21)$$

$$22. 4 - 22$$

$$23. -8 - 16$$

$$24. 12 - (-9)$$

Find the distance between the integers on a number line.

$$25. 8 \text{ and } -9$$

$$26. -10 \text{ and } 0$$

$$27. -6 \text{ and } 6$$

$$28. -5 \text{ and } 13$$

$$29. 22 \text{ and } 2$$

$$30. 8 \text{ and } -21$$

$$31. 0 \text{ and } 13$$

$$32. -4 \text{ and } -7$$

$$33. -6 \text{ and } -22$$

$$34. -7 \text{ and } -22$$

$$35. -33 \text{ and } -39$$

$$36. -12 \text{ and } 32$$