

9-15-17

Aim: SWBAT rewrite integer expressions.

HW: Finish Worksheet (Rewriting Integer Expressions)

Quiz Monday

Do Now: Name and Date on the handout

HW out for answers

Pg. 59-60 #1-40

- ① The absolute value of a number is its distance from zero on the number line.
- ② Two integers are opposites if their sum is zero.
- ③ $4 > -6$ ④ $-12 < 1$ ⑤ $-9 < -2$ ⑥ $0 > -5$
- ⑦ $5 > -5$ ⑧ $-17 < 2$ ⑨ $34 > -29$ ⑩ $-20 < -14$
- ⑪ $-20, -10, 5, 13, 15, 27$ ⑫ $-130, -56, 0, 62, 74, 120$
- ⑬ $-20, -12, 18, 44, 59, 64$ ⑭ $-301, -155, 121, 262, 278$
- ⑮ C
- ⑯ The student ignored the negative sign and literally ordered the numbers.
- ⑰ $19; -19$ ⑱ $8; 8$ ⑲ $740; 740$ ⑳ $1327; -1327$
- ㉑ $-17| B$ ㉒ $|-7| C$ ㉓ $-|-7| D$ ㉔ $-(-7) A$
- ㉕ $|-32| = 32$ ㉖ $-\underbrace{19}_{-9}$ ㉗ $-\underbrace{|29|}_{-29}$ ㉘ $-\underbrace{(-5)}_5$
- ㉙ $-\underbrace{(-81)}_{81}$ ㉚ $-\underbrace{|-17|}_{-17}$ ㉛ $-\underbrace{|-3|}_{-3}$ ㉜ $-\underbrace{(-(-4))}_{-4}$

Name _____

Date _____

Rewriting Integer Expressions

Period _____

Eliminate the double signs and rewrite the expression.

1. $8 + (-7)$ is the same as $8 - 7$

11. $-8 + (-7)$ is the same as $-8 - 7$

2. $10 + (-4)$ is the same as $10 - 4$

12. $-10 + (-4)$ is the same as $-10 - 4$

3. $9 + (-1)$ is the same as $9 - 1$

13. $-9 + (-1)$ is the same as $-9 - 1$

4. $7 + (-8)$ is the same as $7 - 8$

14. $-7 + (-8)$ is the same as $-7 - 8$

5. $3 + (-5)$ is the same as $3 - 5$

15. $-3 + (-5)$ is the same as $-3 - 5$

6. $2 + (-9)$ is the same as _____

16. $-2 + (-9)$ is the same as _____

7. $5 + (-2)$ is the same as _____

17. $-5 + (-2)$ is the same as _____

8. $3 + (-4)$ is the same as _____

18. $-3 + (-4)$ is the same as _____

9. $1 + (-7)$ is the same as _____

19. $-1 + (-7)$ is the same as _____

10. $6 + (-4)$ is the same as _____

20. $-6 + (-4)$ is the same as _____

Adding a negative is the same as _____.

Name _____

Date _____

Rewriting Integer Expressions

Period _____

Eliminate the double signs and rewrite the expression.

21. $6 - (-1)$ is the same as $6 + 1$

22. $4 - (-4)$ is the same as $4 + 4$

23. $7 - (-1)$ is the same as $7 + 1$

24. $2 - (-3)$ is the same as $2 + 3$

25. $9 - (-6)$ is the same as $9 + 6$

26. $1 - (-6)$ is the same as _____

27. $8 - (-3)$ is the same as _____

28. $12 - (-4)$ is the same as _____

29. $3 - (-5)$ is the same as _____

30. $2 - (-9)$ is the same as _____

31. $-6 - (-1)$ is the same as $-6 + 1$

32. $-4 - (-4)$ is the same as $-4 + 4$

33. $-7 - (-1)$ is the same as $-7 + 1$

34. $-2 - (-3)$ is the same as $-2 + 3$

35. $-9 - (-6)$ is the same as $-9 + 6$

36. $-1 - (-6)$ is the same as _____

37. $-8 - (-3)$ is the same as _____

38. $-12 - (-4)$ is the same as _____

39. $-3 - (-5)$ is the same as _____

40. $-2 - (-9)$ is the same as _____

Subtracting a negative is the same as _____.

- **Isolating Terms**

The number behind the operation gets the operation as its sign.

- **When the double signs are eliminated, all problems become addition problems.**

Name _____

A Analyzing Integer Expressions

Date _____

Period _____

Expression	Isolated Terms	Description of the Isolated Terms	Sign of the Answer?	Which Algorithm Decides the Number?	Final Answer
5 - 7	Same Signs or Different Signs	All + All - More + More -	+ or -	$\begin{array}{r} 7 \\ +5 \\ \hline \end{array}$ $\begin{array}{r} 7 \\ -5 \\ \hline \end{array}$	-2
10 - 2	Same Signs or Different Signs	All + All - More + More -	+ or -	$\begin{array}{r} 10 \\ + 2 \\ \hline \end{array}$ $\begin{array}{r} 10 \\ - 2 \\ \hline \end{array}$	
15 - 12	Same Signs or Different Signs	All + All - More + More -	+ or -	$\begin{array}{r} 15 \\ + 12 \\ \hline \end{array}$ $\begin{array}{r} 15 \\ - 12 \\ \hline \end{array}$	
25 - 30	Same Signs or Different Signs	All + All - More + More -	+ or -	$\begin{array}{r} 30 \\ + 25 \\ \hline \end{array}$ $\begin{array}{r} 30 \\ - 25 \\ \hline \end{array}$	
40 - 45	Same Signs or Different Signs	All + All - More + More -	+ or -	$\begin{array}{r} 45 \\ + 40 \\ \hline \end{array}$ $\begin{array}{r} 45 \\ - 40 \\ \hline \end{array}$	
100 - 75	Same Signs or Different Signs	All + All - More + More -	+ or -	$\begin{array}{r} 100 \\ + 75 \\ \hline \end{array}$ $\begin{array}{r} 100 \\ - 75 \\ \hline \end{array}$	