

Warm up - back of p 30

$$\begin{array}{l}
 3(4^2 - 5) \div 3 + 8 \\
 3(16 - 5) \div 3 + 8 \\
 3(11) \div 3 + 8 \\
 33 \div 3 + 8 \\
 (19) \quad 11 + 8
 \end{array}$$

$$\begin{array}{l}
 12 - 5 \cdot 2^3 \\
 12 - 5 \cdot 8 \\
 \quad 40 \\
 \quad -28
 \end{array}$$

$$\begin{array}{l}
 \frac{-10}{10} \\
 \quad -1
 \end{array}
 \quad
 \begin{array}{l}
 \frac{6 - 4^2}{2(3^2 - 4)}
 \end{array}$$

$$\begin{array}{l}
 6 - 16 \\
 -10 \\
 2(9 - 4) \\
 2(5) \\
 10
 \end{array}$$

Name:	Date:
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Topic:	Class:
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Main Ideas/Questions	Notes/Examples
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<p>Key Words & Phrases</p> <p>total</p>	<p style="text-align: center;">ADDITION +</p> <ul style="list-style-type: none"> • more than • increase • added to • sum • combine • all together 	<p style="text-align: center;">SUBTRACTION -</p> <ul style="list-style-type: none"> • decrease • difference • take away • subtracted from • minus • less than
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<p>twice</p> <p>times</p> <p>power of</p>	<p style="text-align: center;">MULTIPLICATION •</p> <ul style="list-style-type: none"> • rate • product • per • multiply • groups of • each 	<p style="text-align: center;">DIVISION /</p> <ul style="list-style-type: none"> • fraction • half/third/fourth • divide • quotient • equal groups • divided by
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Watch out for subtraction!

Phrases like more than and less than indicate that you need to reverse the order!

<p>Examples</p>	Directions: Translate each expression.	
	Words	Expression
	<p style="text-align: center;">+</p> <p>"five <u>more than</u> a <u>number</u>"</p>	<p>$x + 5$</p>
	<p style="text-align: center;">÷</p> <p>"the <u>quotient</u> of a <u>number</u> and <u>-2</u>"</p>	<p>$\frac{n}{-2}$</p>
	<p style="text-align: center;">x</p> <p>"<u>twice</u> a <u>number</u>"</p>	<p>$2n$</p>
<p style="text-align: center;">-</p> <p>"a <u>number</u> <u>decreased</u> by <u>7</u>"</p>	<p>$n - 7$</p>	

5.	"the <u>product</u> of a <u>number</u> and <u>twelve</u> "	$12n$
6.	"three subtracted from a number"	$x - 3$
7.	"earning \$15 per hour" $n \cdot 15$ $n \cdot 15$	$(5n)$
8.	"\$5 <u>less than</u> the cost of the ticket"	$x - 5$
9.	"the <u>sum</u> of a number and 24"	$n + 24$
10.	"50 markers <u>divided among</u> several students"	$\frac{50}{x}$
11.	"two-fifths of a number"	$\frac{2}{5}x$
12.	" <u>half</u> a number minus nineteen"	$\frac{1}{2}x - 19$
13.	"11 <u>less than</u> the <u>product</u> of a number and -4"	$-4x - 11$
14.	"the <u>total</u> of eight times a number and five"	$8n + 5$
15.	"the <u>difference</u> of a number squared and 14"	$x^2 - 14$
16.	"three-fourths of a number plus 17"	$\frac{3}{4}n + 17$

Going Backwards...

Directions: Write each expression in words.		
	Words	Expression
17.		$n - 9$
18.		$\frac{p}{8}$
19.		$-5x$
20.		$k + 10$
21.		$\frac{1}{3}m$
22.		$\frac{a}{2} - 30$
23.		$-7n - 1$
24.		$2y + 13$

Name: _____

Unit 2: Algebraic Expressions

homework

Date: _____ Per: _____

Homework 1: Translating Expressions

Directions: Translate each expression.	
1. "the product of a number and negative 8"	2. "a number increased by thirty-five"
3. "two-fifths of a number"	4. "the quotient of a number and 4"
5. "18 less than a number"	6. "24 hours per day"
7. "the total for parking and an admission ticket"	8. "\$3 subtracted from the cost of book"
9. "the sum of twice a number and 15"	10. "the difference of a number squared and 6"
11. "half of a number decreased by 27"	12. "10 more than a number divided by -8"
13. "9 less than the square root of a number"	14. "-4 times a number plus 29"
15. "25 decreased by the product of number and 3"	16. "7 points more than twice the number of points scored by the other team"

Directions: Give two different ways to write each expression in words.	
17. $\frac{x}{-7}$	a) _____ b) _____
18. $-4n$	a) _____ b) _____
19. $\frac{k}{3} + 16$	a) _____ b) _____
20. $2a - 18$	a) _____ b) _____

IXL practice

8th grade

V1, E8, E9

Finish walkabout

Homework

IXL