

Name: _____ Teacher: _____ School: _____

Grade #6: Lesson #1 Using order of operations to evaluate expressions with exponents

Evaluate the expressions.

1. $3 \times 5 + 2 \times 8 + 2$

2. $(\$1.75 + 2 \times \$0.25 + 5 \times \$0.05) \times 24$

3. $((12 \div 3)^2 - (18 \div 3^2)) \times (4 \div 2)$

4. $7 + (40 - 3^3)$

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Grade #6: Lesson #2 Write and evaluate expressions

1. Read each variable in the table and improve the description given, making it more specific. The first one is done for you.

Variable	Incomplete Description	Complete Description with Units
Karolyn's CDs (K)	Let K = Karolyn's CDs	Let K = the number of CDs Karolyn has
Joshua's merit badges (J)	Let J = Joshua's merit badges	
Rufus's trading cards (R)	Let R = Rufus's trading cards	
Milk money (M)	Let M = the amount of milk money	

2. Complete the table below. The first one is done for you.

Story Problem	Description with Units	Expression	Evaluate the Expression if:	Show Your Work and Evaluate
Sammy has two more baseballs than his brother Ethan.	Let e = the number of balls Ethan has	$e + 2$	Ethan has 7 baseballs.	$e + 2$ $7 + 2$ 9 Sammy has 9 baseballs.
Ella wrote 8 more stories than Anna in the fifth grade.			Anna wrote 10 stories in the fifth grade.	
Lisa has been dancing for 3 more years than Danika.			Danika has been dancing for 6 years.	
The New York Rangers scored 2 fewer goals than the Buffalo Sabres last night.			The Rangers scored 3 goals last night.	

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Grade #6: Lesson #3 Using the Distributive Property to Find Equivalent Expressions

Directions: Use the distributive property to write the following expressions in expanded form.

1. $2(b + c)$

2. $5(7h + 3m)$

3. Create a model to show that $2(3x + 2y) = 6x + 4y$.

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Grade #6: Lesson #4 Finding solutions to make equations true

Find the solution to each equation from the given set of numbers: 0, 2, 5, 7, 12, 18, 26

1.) $7f = 49$

2.) $1 = \frac{r}{12}$

3.) $1.5 > d + 0.8$

4.) $9^2 > h$

5.) $q = 45 - 19$

6.) $8a \leq 80$

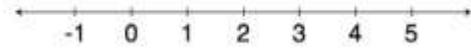
7.) $x \cdot \frac{1}{2} < 10$

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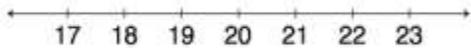
Grade #6: Lesson #5 Solving and graphing inequalities

Write an inequality to represent each situation. Describe what each variable represents. Then, graph the solution. From the infinitely many solutions, state 3 possible answers (don't forget decimals and fractions).

1. Blayton is at most 2 meters above sea level.



2. Edith must read for a minimum of 20 minutes.



3. Keisha needs to make at least 28 costumes for the school play. Since she can make 4 costumes each week, Keisha plans to work on the costumes for at least 7 weeks.



4. Eva saves \$60 each week. Since she needs to save at least \$2400 to go on a trip to Europe, she will need to save for at least 40 weeks.

