

Name: _____ Date: _____ Period: _____

Homework for Lesson 11-1

For problems 1-4, write an algebraic expression to represent the phrase.

1. The quotient of 13 and z	2. a take away 16
3. 8 less than w	4. 3 groups of w

For problems 5-8, write a phrase to represent the algebraic expression.

5. $\frac{h}{12}$	6. $11x$
7. $2 + g$	8. $6 - y$

For problems 9-10, read the scenario then answer the questions.

9. Sarah and Noah work at Read On Bookstore and get paid the same hourly wage. The table shows their work schedule for last week.

Read On Bookstore Work Schedule (hours)			
	Monday	Tuesday	Wednesday
Sarah	5	3	
Noah			8

- a) Write an expression that represents Sarah's total pay last week.
Represent her hourly wage with w .

- b) Write an expression that represents Noah's total pay last week. Represent his hourly wage with w . _____
- c) Are the expressions equivalent? Did Sarah and Noah earn the same amount last week? Use models to justify your answer.

10. Mia buys 3 gallons of gas that costs d dollars per gallon. Bob buys g gallons of gas that costs \$3 per gallon.

- a) Write an expression for the amount Mia pays for gas _____
- b) Write an expression for the amount Bob pays for gas _____
- c) What do the number and the variable represent in each expression?

Spiral Review

<p>1) Use Order of Operations to solve.</p> $9 + 6(2^2 + 4)$	<p>2) Circle the following ratios that are equivalent to 2:5</p> <ul style="list-style-type: none">a. 1:2.5b. 10:25c. 12:30d. 6:20e. 3:6
<p>3) Khalil has $\frac{3}{4}$ acres of land that he is selling to 3 people. How much land will each person buy if the land is divided up equally?</p>	<p>4) Abby complete 20% of her math problems on her test. If there are 25 math problems on the test, <i>how many problems does Abby have left?</i></p>
<p>5) Write an expression for the product of 5 and m added to 9:</p>	<p>6) At a hospital, the ratio of doctors to patients is 3:5. If there are 75 patients at the hospital, how many doctors are there?</p>

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Homework for Lesson 11-2

For problems 1-4, evaluate the following expression when $m = 5$

1. $4(m - 2 + 10)$	2. $\frac{25}{m} + m^2$
3. $m \cdot 4 \div 2 - 8$	4. $5(8 + 4 \cdot m)$

5. The table on the right shows the prices for attending a women's soccer game as well as parking. Use the table to answer the questions below.

Women's Soccer Game Prices	
Student tickets	\$6
Nonstudent tickets	\$12
Parking	\$5

a. Write an expression to represent the total price for student tickets and one car of parking:

b. Use your expression to determine how much the total cost would be for 4 students including parking?

c. Use your expression to determine how much the total cost would be for 8 students including parking?

d. Write an expression to represent the total price for non-student tickets without parking.

Spiral Review

1) Find the sum of $10.97 + 20.35$

2) If Ms. Tex ran 3 miles in 21 minutes how many miles can she run in 1 hour? Fill in the ratio table below with the correct values:

Miles	Minute
1	
3	21

3) Emily shared $\frac{3}{4}$ of a cake with 2 friends. How much of the cake did each friend get?

4) Solve the following expression if $y = 10$

$$y - 5 + y \cdot 2$$

5) List the absolute values from least to greatest.

$|-7|$, $|8|$, $|-1|$, $|12|$, $|33|$

6) At Wheeler Middle School the ratio of students to teachers is 1:30. If there are 60 teachers at the school how many students are there?

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Homework for Lesson 11-3

For problems 1-4, In the following questions circle the coefficients and box the variables.

1. $2 + 15y^2 + 77x + 3y^2 + 6$	2. $44x + 2p - 14 + 3y^2$
3. $63a + 2 + 13b - 5 + 7z$	4. $2d + 33 - 8$

For problems 5-8, find an equivalent expression by combining like terms.

5. $3a + 2(b + 5a)$	6. $4a^5 - 2a^5 + 4b + b$
7. $6x^2 + 4(x^2 - 1)$	8. $8y - 3y + 6$

5. Simplify $\frac{1}{2}(4 + x)$ by finding an equivalent expression using the distributive property.

6. Simplify $5(7 + x)$ by finding an equivalent expression using the distributive property.

Spiral Review

1) $320 \div (\frac{(11-9)^3}{2})$	2) List three equivalent ratios to 5:6								
3) The ratio of Comedies to Thrillers on Netflix is 3:4 Fill in the ratio table below with the correct values: <table><tr><th>Comedies</th><th>Thrillers</th></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>	Comedies	Thrillers							4) Rosa can run 4 miles in 56 minutes. How many miles does Rosa run if she runs for 42 minutes? Use a proportion to solve.
Comedies	Thrillers								
5) Nicole walked 12 miles on Tuesday, 10.5 miles on Wednesday, and 22 miles on Thursday. How far did Nicole walk all three days combined?	6) Represent this expression using an exponent: $7 \times 7 \times 7 \times 7 \times 7 \times 7 \times 7$ What is the value of this expression?								