Name: <u>Angular Key</u> r	Date:		Perio	d:
Homework fo	or 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 a	way 16 ℳ - Í	6	
3. 8 less than w	4. 3 groups	s of w		
W-8		3W		
For problems 5-8, write a phrase to represent the a	gebraic expr	ession.		
5. $\frac{h}{12}$	6. 11 <i>x</i>			
h divided by 12	Prod	uct o	f 11	and X
7. 2+g	8. 6- <i>y</i>			
2 added to g. For problems 9-10, read the scenario then answer to		e e		and y
9. Sarah and Noah work at Read On Bookstore and		n Bookstore	W-1-8-1-21	
get paid the same hourly wage. The table shows their work schedule for last week.	nead	Monday	Tuesday	Wednesday
a) Write an expression that represents Sarah's	Sarah	5	3	**************************************
total pay last week. Represent her hourly wage with <i>w</i> .	Noah			8 service to the transfer of t
5W + 3W				
b) Write an expression that represents Noah's to hourly wage with w.	otal pay last w	eek. Repres	ent his	
c) Are the expressions equivalent? Did Sarah ar to justify your answer. Yes, the equivalent b				

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

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

3 gallons, d dollars

g gallons, 3 dollars

Spiral Review

1) Use Order of Operations to solve.

$$9 + 6(2^{2} + 4)$$
 $4 + 4$
 $9 + 6 \cdot 8$
 $9 + 48 \cdot 57$

2) Circle the following ratios that are equivalent to 2:5

- e. 3:6
- 3) Khalil has 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?

$$\frac{3}{4} \cdot \frac{3}{1}$$
 $\frac{3}{4} \times \frac{1}{3} = \frac{3}{12} = \frac{1}{4} \quad 1$ and

4) Abby completes 20% of her math problems on her test. If there are 25 math problems on the test, how many problems does Abby have left?

$$\frac{x^{\frac{1}{20}}}{25} = \frac{20}{100}$$

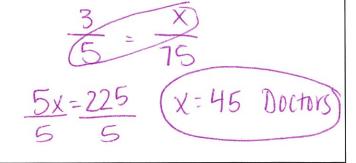
$$\frac{25}{5}$$

$$\frac{25}{5}$$

$$\frac{20}{100}$$
problems
$$1eft$$

5) Write an expression for the product of 5 and *m* added to 9:

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?



Homework for Lesson 11-2

4.

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

1.
$$4(m-2+10)$$

 $4 \cdot (5-2+10)$
 $4 \cdot 13 = 52$

2.
$$\frac{25}{m} + m^{2}$$

$$\frac{25}{5} + 5^{2}$$

$$5 + 25 = 30$$

3.
$$m \cdot 4 \div 2 - 8$$

$$5 \cdot 4 \div 2 - 8$$

$$20 \div 2 - 9$$

$$10 - 8 = 2$$

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

(0)	P +5	

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

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)
$$320 \div (\frac{(11-9)^3}{2})$$

$$320 \div \frac{8}{2}$$

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:

Comedies	Thrillers	
3	4	
6	8	
9	12	

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.



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:



What is the value of this expression?