Evaluate the following expressions if r = 4, h = 7, c = 2

$$11(h + c) - 14$$

$$2 r^2 + c(15 - h)$$

$$9r + 7h - c^2$$

Look at each of the three problems below and determine if they were solved correctly. Make any corrections necessary.

$$\begin{array}{c} \textbf{(} & 10^2 + (4+2)^2 \cdot 5 \\ & 100 + 16 + 4 \cdot 5 \\ & 100 + 16 + 20 \\ \hline & & 136 \end{array}$$

$$\begin{array}{c} \mathbf{B} & (6^2 - 16) + 24 \\ & (36 - 16) + 24 \\ & 20 + 24 \end{array}$$



A meal at Pizzeria Plaza costs \$2 per slice of pizza plus \$1.75
for a drink.
Define a variable:
Cost of a meal with $s$ slices of pizza
Cost of a meal with 3 slices of pizza
${\sf B}$ Jorge has \$740 in his bank account. Each month he has to
withdraw \$27 to pay for his cell phone.
Define a variable:
Amount in his account after <i>m</i> months:
Amount in his account after 8 months:



Use your understanding of exponent form, expanded form, and standard form to complete the following table

tobM exbohent	tobM exbanded	SHANDARD FORM
	4 · 4 · 4 · 4	
		81
23 62		
81		
	5 · 2 · 5 · 2 · 2 · 2	
9 · 73		



# Write an expression for the following situations.

A) one-half a number plus 10	
B) 6 times a number less 2	
C) p squared divided by 8	
D) 60 times the number of hours	
E) twice the width less 3	
F) temperature decreased 13 degrees	

Set a timer for 4 minutes. Write equivalent expressions for as many problems as you can before the time is up.

I	4(x + 3)	2	2(5x - 1)	3 6(4x-2)	Ч 5 – (x – 12)
5	12 · 5 · 7	6	4 · 10 · 3	<sup>7</sup> (15 + 6) + 2	8 2(11 + 3)
٩	9 +(x – 3)	Ю	3(2x + 1)	II (7 +10) + x	12 4 - (2 - 2x)



Create a problem and then apply the given property to complete the table below. An example is provided in the first row.

PRoPeRty	PROBLEM	APPLY tHe PROPERty
Commutative Property of Addition	5 + s	s + 5
Additive Identity Property	1a)	1b)
Multiplicative Identity Property	2a)	2b)
Commutative Property of Multiplication	3a)	3b)
Zero Product Property	4a)	4b)
Additive Inverse Property	5a)	5b)
Multiplicative Inverse Property	6a)	6b)



Label each of the parts of the expression using the terms provided in the word bank.

$$8^2 - 6X - 2 + X + 79$$

# [WORD BANK]

- Base
- Coefficient
- Expression
- Constant

- Operation
- Variable
- Term
- Exponent

Unit: Expressions Stations

Name _	
Date	Pd

## expressions unit review

Answer each question in the appropriate box. Be sure to show your work.

Station I	Station 2	Station 3
1	A	A Define a variable:
	В	Cost of the meal with s slices of pizza:
2	C	Cost of a meal with 3 slices
3		В
		B Define a variable:
4		Amount in his account after <i>m</i> months:
		Amount in his account after 8 months:

toBM exbonent	expanded form	SHANDARD FORM
	4 · 4 · 4 · 4	
		81
2 <sup>3</sup> 6 <sup>2</sup>		
81		
	5 · 2 · 5 · 2 · 2 · 2	
9 · 73		

Answer each question in the appropriate box. Be sure to show your work.

## Station 5

A. \_\_\_\_\_

B. \_\_\_\_\_

C. \_\_\_\_\_

D.

E.

F.\_\_\_\_\_

## Station 6

I	2	3	4
5	6	7	8
9	Ю	II	12

### STATION 7

PROBLEM	APPLy the PROPERty
5 + s	s + 5
1a)	1b)
2a)	2b)
3a)	3b)
4a)	4b)
5a)	5b)
6a)	6b)

[LABEL He expression] 
$$8^2 - 6x - 2 + x + 79$$

Unit:	Expressions	
Statio	ns	

Name	KEY	
Date		Pd

## expressions unit review

Answer each question in the appropriate box. Be sure to show your work.

Station I	Station 2	Station 3
1. <u>85</u>	A <del>5</del>	A Define a variable: $s = \#$ of slices of pizza
2. 32	B. <u>correct</u> C. <u>280</u>	Cost of the meal with $s$ slices of pizza: $2s + 1.75$ Cost of a meal with 3 slices $$7.75$
3. <u> </u>		B — # of months
4		Define a variable: $\underline{m} = \#$ of months  Amount in his account after $m$ months: $\underline{740 - 27m}$ Amount in his account after 8 months: $\underline{\$524}$

exponent	expanded form	S+ANdARd FORM		
<b>4</b> <sup>5</sup>	4 · 4 · 4 · 4	1,024		
34	3 · 3 · 3 · 3	81		
23 62	2 · 2 · 2 · 6 · 6	288		
81	8	8		
5 <sup>2</sup> 2 <sup>4</sup>	5 · 2 · 5 · 2 · 2 · 2	400 3,087		
9 · 7³	9 • 7 • 7 • 7			

Answer each question in the appropriate box. Be sure to show your work.

## Station 5

A. 
$$\frac{1}{2}x + 10$$

C. 
$$\frac{p^2}{8}$$

## Station 6

\* There are other possible equivalent expressions; answers may vary.

ı		2		3		4	
	4x + 12		10x - 2		24x - 12		17 - x
5		6		7		8	
	7 · 5 · 12		3 · 10 · 4	15 -	+ (6 +2)	2 ·	11 + 2 · 3
9		Ю		II		12	
	x + 6		6x + 3		17 + x		2x + 2

### Station 7

PROBLEM	APPLy the PROPERty
5 + s	s + 5
1a) Answers vary	1b)
2a)	2b)
3a)	3b)
4a)	4b)
5a)	5b)
6a)	6b)

