

Take out page three from the packet from last class.

Pull off page 3 and write your name on it. I

will come around to collect it.

1 What is the first step in evaluating the expression $5(6 - 4 + 2)^2$?

- (A) $6 - 4$ (C) 5×6
(B) (D)

2 Silvio made 35 cupcakes. He also made m muffins. Which expression represents how many more muffins Silvio made than cupcakes?

- (A) (C)
(B) $m \div 35$ (D) $m - 35$

3 Select all the expressions that are equivalent to $6 \times 6 \times 6 \times 6 \times 6 \times 6 \times 6$

- (A) $6^3 \times 6^4$ (B) ~~6^6~~
(C) 6^7 (D) ~~6^8~~
(E) ~~$7^3 \times 7^2$~~
- Base = 6
exponent = 7
 6^7
And any exponents that add up to 7 on a base of 6.
- $6 \times 6 \times 6 \times 6 \times 6 \times 6 \times 6$
8 sixes

4 Which value for x makes the expressions equivalent?

- $8x + 4$ and $4(x + 6)$
(A) $8(7) + 4 \stackrel{?}{=} 4(7 + 6)$
 $56 + 4 = 4(13)$
 $60 \neq 52$

SHOW WORK

- ~~$8(7)$~~
 ~~$8(6)$~~
(C) $8(5) + 4 \stackrel{?}{=} 4(5 + 6)$
 $40 + 4 = 4(11)$
 $44 = 44 \checkmark$

5 Simplify the expression: (SHOW WORK)

MULTIPLY
 $25 - 3(a - 5) + 7a$

$25 - 3(a) - 3(-5) + 7a$

$25 - 3a + 15 + 7a$

$40 + 4a$

- Can't simplify $a - 5$ because they're not like terms
- Use the DISTRIBUTIVE PROPERTY to multiply the -3
- Combine like terms

6 Evaluate the expression when $x = 3$

(SHOW WORK)

$10^2 \div 4(2 + x) - 9 =$ _____

$10^2 \div 4(2 + 3) - 9$

$10^2 \div 4(5) - 9$

$100 \div 4(5) - 9$

$25(5) - 9$

$125 - 9 = 116$

$$\begin{array}{r} 25 \\ \times 5 \\ \hline 125 \end{array}$$

- 7 What are the different parts of the expression $5x + 9y - 14$?

Write each part of the expression in the correct place in the table.

Constant	Variables	Coefficients
-14	x & y	5 & 9

- 8 Caroline earned 70 points for writing an essay on a test. She also earned 3 points for every question, q , she answered correctly. What expression can be used to find how many points Caroline earned on the test?

$$70 + 3q$$

- 9 Are the expressions equivalent to each other? (Yes or No, and SHOW WORK)

$$6(x + 2) \text{ and } 6x + 8$$

$$6(x) + 6(2)$$

$$6x + 12 \neq 6x + 8$$

No, the expressions are not equivalent.

• Use distributive property to rewrite $6(x + 2)$

- 10 Part A

A taxi service charges \$6.50 to pick someone up, and then \$0.80 per mile for a trip.

Write an expression that can be used to find the cost of a taxi ride for any number of miles, m .

$$6.5 + 0.8m$$

Part B

What is the cost of a taxi ride that is 5 miles long? (SHOW WORK)

$$6.5 + 0.8(5)$$

$$6.5 + 4 = \$10.50$$

$$\begin{array}{r} 0.8 \\ \times 5 \\ \hline 4.0 \end{array}$$