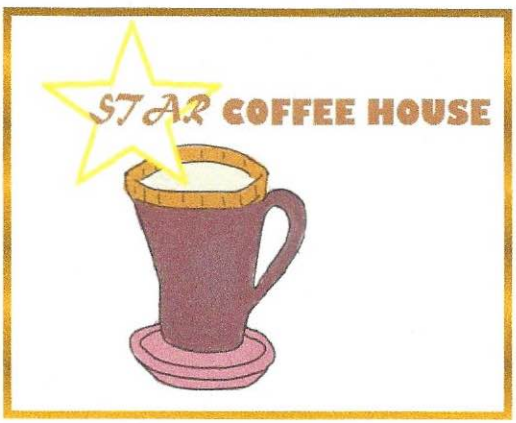
WORKSHEET: Name:_____ Period____ Date:_____

IDENTIFYING AND EVALUATING ALGEBRAIC EXPRESSION

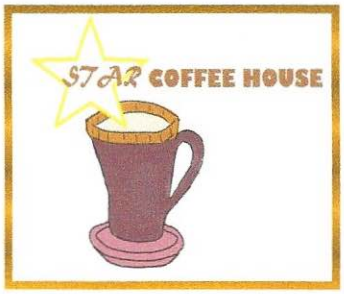


Star Coffee House, *which is famous for its tagline "Your Star Coffee", has opened its latest store in Manila. Store hours are from 5 am to 12 midnight, seven days a week. Aside from that, it is also celebrating its 10th anniversary of successful coffee business. Coffee is roasted at the store, which guarantees to deliver fresh roasted coffee every single day.*

1) A plain bagel costs $ 1.50 and a large size of Café Mocha is $ 2.
A police officer bought a plain bagel and a large size coffee. He gave a tip of $ 3. Let us represent what he bought using the algebraic expression: $1.5b + 2c + 3$
Where: c = number of large Café Mocha cup sold &
b = number of plain bagel sold

Identify the following:
Variable/s: _____
Numerical Coefficient/s: _____
Constant/s:_____

2) A raisin bagel costs $ 1.75 and a medium size Café Americano is $ 2.50.
A) Represent using an algebraic expression a customer who bought one raisin bagel and one medium size coffee.
Where: c = number of medium Café Americano sold &
b = number of raisin bagel sold
Answer: _____
B) Using the expression in Question Letter A, how much would a customer pay for six raisin bagels and two medium size Café Americano?_____



3) Let y = price of a slice of Strawberry Cheesecake sold at Star Coffee House. What is the value of y in the equation 4y = 14?

Encircle the letter of your answer.

A. 2 B. 7 C. 2.5 D. 3.5

4) Let c = number of regular coffee sold. Translate the following verbal phrase to algebraic expression. Evaluate the expression when c = 36.

VERBAL PHRASE	ALGEBRAIC EXPRESSION	EVALUATE THE EXPRESSION
Example: Six times c decreased by 2	6c - 2	6 (36)-2 = 216-2= 214
1) Twice c increased by two		
2) Eight less than c		
3) The difference of c and 15		
4) c plus nine		
5) The quotient of c and 12 plus 5 times c		
6) Four times c		
7) The product of four and c added to ten		