Name:

➤ **Solve the problems.**

1 Which algebraic expression represents the statement below?

the quotient of <u>four times a number</u> and six
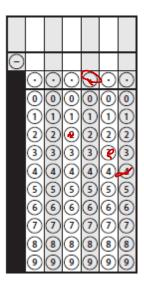
A $\frac{4}{n} + 6$

B $\frac{4n}{6}$

C $\frac{6}{4n}$

D $n + \frac{6}{4}$

2 Decide if each statement about the expression $7f + 15 - 2g$ is true or false. Choose *True* or *False* for each statement.

		True	False
a.	In one of the terms, g is a factor.	○	⊗
b.	The expression contains 2 terms.	✓	○
c.	In the expression, 15 is a constant.	✓	○
d.	The expression contains 3 variables.	○	✗

3 <u>Evaluate</u> the expression $\frac{1}{4}[x(2y + 3z)]$ when $x = 8$, $y = 3$, and $z = \frac{5}{3}$.

Record your answer on the grid. Then fill in the bubbles.

4 Liam has a bag of *b* beads. He gives 20 beads to his sister. Liam uses the remaining beads to make 4 necklaces. He uses the same number of beads on each necklace. <u>Which expression</u> represents the number of beads on each necklace. Show your work.

a. B+20÷4

b. 20B÷4

c. B-20÷4

d. (B-20)÷4

5 Bailey has 45 minutes to exercise. It takes Bailey 3 minutes to jog around the track and 5 minutes to stretch. She jogs 6 laps around the track and stretches 2 times. <u>Write **and** evaluate</u> an algebraic expression to find the amount of time Bailey has left. Use *j* for the number of laps she jogs and *s* for the number of times she stretches. Show your work.

a. Which expression shows how to find the amount of time Bailey has left?

    a. 45 + 3j + 5s

    b. 45- (3j + 5s)

    c. 45(3j + 5s)

    d. 45 + 3j – 5s

b. How many laps is Bailey running?_____6___

c. How many times is Bailey stretching?__2____

d. Evaluate the expression you chose using the amount of laps and stretches Bailey did.

$$(45 - 3 - 5) - 6j - 5s$$

SOLUTION _____