

Name

Directions: Show your work for credit. Use your notes and textbook for support

1. Cassie rolls a fair number cube with 6 faces labeled 1 through 6. She rolls the number cube 300 times. Which result is **most** likely?

- A** Cassie will roll a 1 or a 2 about 50 times.
- B** Cassie will roll a 1 or a 2 exactly 50 times.
- C** Cassie will roll an even number about 150 times.
- D** Cassie will roll an even number exactly 150 times.

2. What is the value of the expression below?

Show your work

$$\frac{3}{8} + \left(-\frac{4}{5}\right) + \left(-\frac{3}{8}\right) + \frac{5}{4}$$

- A** 0 **B** $\frac{1}{20}$ **C** $\frac{9}{20}$ **D** $2\frac{4}{5}$

3. Carmine paid an electrician x dollars per hour for a 5-hour job plus \$70 for parts. The total charge was \$320. Which equation can be used to determine how much the electrician charged per hour?

- A** $5x = 320 + 70$
- B** $5x = 320 - 70$
- C** $(70 + 5)x = 320$
- D** $(70 - 5)x = 320$

4. Which expression represents the sum of $(2x - 5y)$ and $(x + y)$?

- A** $3x - 4y$
- B** $3x - 6y$
- C** $x - 4y$
- D** $x - 6y$

5. David bought a computer that was 20% off the regular price of \$1,080. If an 8% sales tax was added to the cost of the computer, what was the total price David paid for it?
- A \$302.40
 - B \$864.00
 - C \$933.12
 - D \$1,382.40
6. Suzanne bought a sweater at the sale price of \$25. The original cost of the sweater was \$40. What percent represents the discount that Suzanne received when buying the sweater?
- A 15%
 - B 37.5%
 - C 60%
 - D 62.5%
7. Last week Len spent \$18 to bowl 4 games. This week he spent \$27 to bowl 6 games. Len owns his bowling ball and shoes, so he only has to pay for each game that he bowls. If each of these bowling games costs the same amount of money, what is the constant of proportionality between the money spent and the number of games played?
- A 1.5
 - B 2.0
 - C 4.5
 - D 9.0
8. Julia's service charge at a beauty salon was \$72.60, before tax. The sales tax rate was 8%. If she added 20% of the amount before tax as a tip, how much did she pay for the service at the salon?
- A \$87.12
 - B \$92.93
 - C \$100.60
 - D \$145.20