Group Work

1) The expression 2t² – 10 can be used to determine the distance in feet, a falling object travels for a given time t, in minutes. How many feet will a falling object travel in 5 seconds?

Answer:	

The surface area, S, of a right rectangular prism with length I, width w, and height h can be found using the formula below.

$$S = 2(lw + wh + hl)$$

What is the surface area, in square inches, of a prism with a length of 12 inches, a width of 9 inches, and a height of 2 inches?

- A 300
- B 258
- C 150
- D 92
- 3) Evaluate the expression for the given values.

$$2x + (3y + z^2)$$

$$x = 8$$

$$y = 10$$

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Classwork: W2 D2_Evaluating Algebraic Expressions

1. Evaluate for a = 6 and b = 4.

$$2a^2 + 3b - 4a$$

- A. 12
- **B.** 20
- C. 48
- D. 60
- 2. A cube has edges of 8 inches. What is the volume of the cube? Use the formula $V = s^3$.
 - A. 24 cubic inches
 - B. 64 cubic inches
 - C. 512 cubic inches
 - D. 4,096 cubic inches
- 3. What is the value of the expression below?

$$5^2 + 6 - 4(2 + 3)$$

- A. 11
- **B.** 19
- C. 26
- D. 32

4. Evaluate for c = 8 and d = 4.

$$c^2 \times 2c \div d^3 + 10$$

- **A.** 14
- B. 26
- C. 656
- D. 4,106
- 5. A cube has edges of $\frac{1}{4}$ inch. What is the surface area of the cube? Use the formula $V = 6s^2$.
 - A. $\frac{3}{8}$ square inch
 - **B.** $\frac{3}{4}$ square inch
 - C. $1\frac{1}{2}$ square inches
 - **D.** $2\frac{1}{4}$ square inches
 - 6. Evaluate: $6^2 \div 4 + 3 \times 8$
 - A. $\frac{9}{14}$
 - **B.** 33
 - C. 48
 - D. 96
 - 7. What is the value of the expression below?

$$16 + 24 \div 2^3 \times 3 - 8$$

- A. 7
- B. 9
- C. 17
- D. 20