

Homework 05:

1. Simplify the expression.

$$(8 - 5)^2 \cdot 3 - 8 \div 2$$

- A. -3
- B. 9.5
- C. 14
- D. 23

2. Simplify the expression.

$$\frac{28 + 4^2}{2}$$

- A. 9
- B. 11
- C. 16
- D. 22

3. Which is equivalent to the expression below?

$$4a + 5 - a + 2$$

- A. $10a$
- B. $11a$
- C. $3a + 7$
- D. $4a + 7$

4. Expand the expression.

$$6(2k - 3)$$

- A. $8k - 3$
- B. $9k$
- C. $12k - 3$
- D. $12k - 18$

5. What is the value of this expression when $c = 4$?

$$4c + 3c - 2c$$

- A. 20
- B. 28
- C. 36
- D. 40

6. What is the value of this expression when $a = -3$ and $b = 5$?

$$a + b^2$$

- A. -28
- B. -13
- C. 22
- D. 28

7. Which is equivalent to the expression below?

$$3p + 4 + p + 12 + 3q$$

- A. $4p + 3q + 16$
- B. $4p + 19q$
- C. $6p + q + 16$
- D. $20p + 3q$

8. Which shows the simplified and completely factored form of the following expression?

$$12x + 4x + 25y + 15y$$

- A. $2(8x + 10y)$
- B. $4(4x + 10y)$
- C. $5(3x + 5y)$
- D. $8(2x + 5y)$

9. Winnie wrote out the following expression.

$$8a - 2b + 12a - 2a - 4b$$

- A. Show how to simplify the expression. Write the answer in factored form.

- B. Evaluate the expression when $a = 4$ and $b = -2$. Show your work.
