

# Algebra Review

1. Evaluate the expression  $\frac{3a + 2b}{2}$  when  $a = -3$  and  $b = -4$ .

- A)  $-\frac{1}{2}$
- B)  $-\frac{17}{2}$
- C)  $\frac{1}{2}$
- D)  $\frac{17}{2}$

2. Simplify:  $3 + 5 \bullet 6 - 4$

- A) 17
- B) 29
- C) 16
- D) 30

3. Simplify:  $6 - 2 \bullet 2 + 2^5$

- A) 40
- B) 18
- C) 34
- D) 12

4. Evaluate:  $\frac{3x - y}{6z - x}$  if  $x = 2$ ,  $y = 8$ , and  $z = -2$ .

- A)  $\frac{1}{7}$
- B)  $-\frac{1}{7}$
- C)  $\frac{1}{5}$
- D)  $-\frac{1}{5}$

5. Simplify:  $\frac{14 - 30}{2(-4)}$

- A) -2
- B) 2
- C)  $\frac{11}{2}$
- D)  $-\frac{11}{2}$

Ryein

6. Use the distributive property to simplify.

$$-3(x - 10) + x$$

- A)  $-4x + 30$
- B)  $-4x - 30$
- C)  $-2x + 30$
- D)  $-2x - 30$

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7. Simplify:  $8y - 2 - 3(y - 4)$

- A)  $11y - 6$
- B)  $5y - 6$
- C)  $5y - 14$
- D)  $5y + 10$

8. Write the fraction in lowest terms:

$$\frac{36a^3bc^2}{24ab^4c^2}$$

- A)  $\frac{3b^2}{2a^3}$
- B)  $\frac{2b^3}{3a^2}$
- C)  $\frac{3a^2}{2b^3}$
- D)  $\frac{2a^2}{3b^3}$

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