

Name: _____

Date: _____ Score: _____

Multi-Step Equations: Distributive Property

Use the distributive property to solve each expression

1 $-16[a + (-\frac{2}{5})]$

2 $-4y(-4 - \frac{3}{4}x)$

3 $-77 = n - 4(3 - 3n)$

4 $-67 = -4n + 3(1 + 4n)$

5 $-7(-2 - 3k) = -60$

6 $31 = -(1 + 6p) + 4(p + 6)$

7 $-24 = -4(5 - 5n) - 6(n - 6)$

8 $16 = -3(4 - 4r) - (4r + 4)$

9 $-6(-4x + 2) + 4(3 + 4x) = 28$

10 $-8(m - 1) + 3(2m - 1) = 8$

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Multi-Step Equations: Distributive Property

Answers

1 $-16[a + (-\frac{2}{5})]$

$$-16a + \frac{32}{5}$$

2 $-4y(-4 - \frac{3}{4}x)$

$$16y + 3x$$

3 $-77 = n - 4(3 - 3n)$

$$n = -5$$

4 $-67 = -4n + 3(1 + 4n)$

$$n = -8\frac{3}{4}$$

5 $-7(-2 - 3k) = -60$

$$k = -3\frac{11}{21}$$

6 $31 = -(1 + 6p) + 4(p + 6)$

$$p = -4$$

7 $-24 = -4(5 - 5n) - 6(n - 6)$

$$k = -2\frac{6}{7}$$

8 $16 = -3(4 - 4r) - (4r + 4)$

$$r = 4$$

9 $-6(-4x + 2) + 4(3 + 4x) = 28$

$$x = \frac{7}{10}$$

10 $-8(m - 1) + 3(2m - 1) = 8$

$$m = -1\frac{1}{2}$$