Solving Multi Step Equations

Name _____

Score _____

MS:08

Solve each equation. Round the answers to the nearest two decimal places.

1) $2.5g - 8 + 3g + 1.9 = 4.3 - 1.5g - 7$

2) $\dfrac{2}{5(a - 1.4)} = \dfrac{4}{3(5.1 - a)}$

3) $\dfrac{2.8(3k - 2)}{6} - 4.4 = 3.6$

4) $-1.2(3b + 1.9) - 13 = -8.2$

5) $3.3(4h - 5) - 4.5 + 3(h + 6.2) = 0$

6) $4(2q - 3.1) - 1.5(q + 3.4) = 4.8 - q$

7) $\dfrac{7(d + 1.5)}{5.6} + 5.8 = -4.2$

8) $\dfrac{n}{3.8} - 1 - 2.2n = 5.5 + 1.3n$

Solving Multi Step Equations

Answer key

Solve each equation. Round the answers to the nearest two decimal places.

1) $2.5g - 8 + 3g + 1.9 = 4.3 - 1.5g - 7$

g = 0.49

2) $\dfrac{2}{5(a - 1.4)} = \dfrac{4}{3(5.1 - a)}$

a = 2.25

3) $\dfrac{2.8(3k - 2)}{6} - 4.4 = 3.6$

k = 6.38

4) $-1.2(3b + 1.9) - 13 = -8.2$

b = −1.97

5) $3.3(4h - 5) - 4.5 + 3(h + 6.2) = 0$

h = 0.15

6) $4(2q - 3.1) - 1.5(q + 3.4) = 4.8 - q$

q = 2.97

7) $\dfrac{7(d + 1.5)}{5.6} + 5.8 = -4.2$

d = −9.5

8) $\dfrac{n}{3.8} - 1 - 2.2n = 5.5 + 1.3n$

n = −2.01