

Solving Equations

Practice 5A: Chapter 3, page 87-89

Solve each equation below.

$$4k + 6 = 70$$

$$k = \underline{\hspace{2cm}}$$

$$\frac{n}{3} + 3 = 10$$

$$n = \underline{\hspace{2cm}}$$

$$8(p - 10) = 72$$

$$p = \underline{\hspace{2cm}}$$

$$\frac{12 + a}{3} = -5$$

$$a = \underline{\hspace{2cm}}$$

$$15 + 6x = -3$$

$$x = \underline{\hspace{2cm}}$$

$$\frac{w}{8} - 5 = 6$$

$$w = \underline{\hspace{2cm}}$$

$$\frac{t - 5}{-3} = -12$$

$$t = \underline{\hspace{2cm}}$$

$$\frac{21 + b}{5} \cdot 4 = 36$$

$$b = \underline{\hspace{2cm}}$$

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Solve each equation below.

$$9y - 22 = 86 \quad y = \underline{\hspace{2cm}}$$

$$(22 + 4q) \cdot 3 = -90 \quad q = \underline{\hspace{2cm}}$$

$$\frac{5d}{7} - 6 = 4 \quad d = \underline{\hspace{2cm}}$$

$$13 + 11h = -64 \quad h = \underline{\hspace{2cm}}$$

$$\frac{14 + 6a}{-5} = -16 \quad a = \underline{\hspace{2cm}}$$

$$\frac{2u}{9} = 16 \quad u = \underline{\hspace{2cm}}$$

$$\frac{5z - 9}{2} = 3 \quad z = \underline{\hspace{2cm}}$$

$$\frac{5(m - 9)}{7} = 30 \quad m = \underline{\hspace{2cm}}$$

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Solve each equation below.

$9f + 16 + 4f = 55 \quad f = \underline{\hspace{2cm}}$

$8s + 17 - 4s - 1 - 2s = 0 \quad s = \underline{\hspace{2cm}}$

$10t = 7t + 21 \quad t = \underline{\hspace{2cm}}$

$8j - 36 = 64 - 2j \quad j = \underline{\hspace{2cm}}$

$9 + 6x = 11x - 6 \quad x = \underline{\hspace{2cm}}$

$9 - 10m = 8m - 9 \quad m = \underline{\hspace{2cm}}$

$9(5g - 8) = 10g - 2 \quad g = \underline{\hspace{2cm}}$

$9b + 11 = 4b + 3(11 + 3b) - 2 \quad b = \underline{\hspace{2cm}}$

Solving Equations Key

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$$4k+6=70 \quad k=16 \quad \frac{n}{3}+3=10 \quad n=21$$

$$8(p-10)=72 \quad p=19 \quad \frac{12+a}{3}=-5 \quad a=-27$$

$$15+6x=-3 \quad x=-3 \quad \frac{w}{8}-5=6 \quad w=88$$

$$\frac{t-5}{-3}=-12 \quad t=41 \quad \frac{21+b}{5} \cdot 4=36 \quad b=24$$

$$9y-22=86 \quad y=12 \quad (22+4q) \cdot 3=-90 \quad q=-13$$

$$\frac{5d}{7}-6=4 \quad d=14 \quad 13+11h=-64 \quad h=-7$$

$$\frac{14+6a}{-5}=-16 \quad a=11 \quad \frac{2u}{9}=16 \quad u=72$$

$$\frac{5z-9}{2}=3 \quad z=3 \quad \frac{5(m-9)}{7}=30 \quad m=51$$

$$9f+16+4f=55 \quad f=3 \quad 8s+17-4s-1-2s=0 \quad s=-8$$

$$10t=7t+21 \quad t=7 \quad 8j-36=64-2j \quad j=10$$

$$9+6x=11x-6 \quad x=3 \quad 9-10m=8m-9 \quad m=1$$

$$9(5g-8)=10g-2 \quad g=2 \quad 9b+11=4b+3(11+3b)-2 \quad b=-5$$