

Word Problem Worksheet

$$\textcircled{1} \quad 4x = 28$$

$$x = 7$$

$$\textcircled{8} \quad J = 4S$$

$$44 = 4S$$

$$S = 11 \text{ years old}$$

$$\textcircled{2} \quad 6x = -36$$

$$x = -6$$

$$\textcircled{9} \quad l = 4w$$

$$20 = 4w$$

$$w = 5 \text{ in}$$

$$\textcircled{3} \quad \frac{1}{2}x = 17.2$$

$$x = 34$$

$$\textcircled{10} \quad l = 6w$$

$$18 = 6w$$

$$w = 3 \text{ in}$$

$$\textcircled{4} \quad \frac{3}{2}x = -12 \cdot \frac{2}{3}$$

$$x = -18$$

$$\textcircled{11} \quad \frac{2}{3}S = 18 \cdot \frac{3}{2}$$

$$S = 27 \text{ students}$$

$$\textcircled{5} \quad 7x = -77$$

$$x = -11$$

$$\textcircled{12} \quad \frac{3}{4}S = 1230 \cdot \frac{4}{3}$$

$$S = 1640 \text{ students}$$

$$\textcircled{6} \quad \frac{8}{8}x = \frac{44}{8}$$

$$x = \frac{11}{2}$$

$$\textcircled{13} \quad 8 \cdot \frac{5}{8}y = 3.75 \cdot 8$$

$$5y = 30$$

$$y = 6$$

$$\$6/\text{yd}$$

$$\textcircled{7} \quad J = 2M$$

$$\frac{12}{2} = \frac{2M}{2}$$

Mary is 6 years old

$$\textcircled{4} \quad \frac{3}{4}C = 3.90 \cdot 4$$

$$\frac{3C}{3} = \frac{15.6}{3}$$

$$C = 5.2$$

$$\boxed{\$5.20/16}$$

$$\textcircled{4} \quad x + x + 1 + x + 2 + x + 3 = 262$$

$$4x + 6 = 262$$

$$-6 \quad -6$$

$$\frac{4x}{4} = \frac{256}{4}$$

$$x = 64$$

$$\boxed{64, 65, 66, 67}$$

$$\textcircled{1} \quad x + x + 1 + x + 2 = 105$$

$$3x + 3 = 105$$

$$-3 \quad -3$$

$$\frac{3x}{3} = \frac{102}{3}$$

$$x = 34$$

$$\boxed{34, 35, 36}$$

$$\textcircled{6} \quad x + x + 1 + x + 2 = x - 47$$

$$3x + 3 = x - 47$$

$$-x \quad -x$$

$$2x + 3 = -47$$

$$-3 \quad -3$$

$$\frac{2x}{2} = \frac{-50}{2}$$

$$x = -25$$

$$\boxed{-25, -24, -23}$$

$$\textcircled{2} \quad x + x + 1 + x + 2 = -129$$

$$3x + 3 = -129$$

$$-3 \quad -3$$

$$\frac{3x}{3} = \frac{-132}{3}$$

$$x = -44$$

$$\boxed{-44, -43, -42}$$

$$\textcircled{5} \quad x + x + 1 + x + 2 = x + 33$$

$$3x + 3 = x + 33$$

$$-x \quad -x$$

$$2x + 3 = 33$$

$$-3 \quad -3$$

$$\frac{2x}{2} = \frac{30}{2}$$

$$x = 15$$

$$\boxed{15, 16, 17}$$

$$\textcircled{3} \quad x + x + 1 + x + 2 + x + 3 = -334$$

$$4x + 6 = -334$$

$$-6 \quad -6$$

$$\frac{4x}{4} = \frac{-340}{4}$$

$$x = -85$$

$$\boxed{-85, -84, -83, -82}$$

$$\textcircled{7} \quad x + x + 2 + x + 4 = 138$$

$$3x + 6 = 138$$

$$\begin{array}{r} -6 \\ -6 \end{array}$$

$$\frac{3x}{3} = \frac{132}{3}$$

$$x = 44$$

$$\boxed{44, 46, 48}$$

$$\textcircled{9} \quad x + x + 2 + x + 4 = -219$$

$$3x + 6 = -219$$

$$\begin{array}{r} -6 \\ -6 \end{array}$$

$$\frac{3x}{3} = \frac{-225}{3}$$

$$x = -75$$

$$\boxed{-75, -73, -71}$$

$$\textcircled{8} \quad x + x + 2 + x + 4 = -312$$

$$3x + 6 = -312$$

$$\begin{array}{r} -6 \\ -6 \end{array}$$

$$\frac{3x}{3} = \frac{-318}{3}$$

$$x = -106$$

$$\boxed{-106, -104, -102}$$

$$\textcircled{11} \quad x + x + 2 + x + 4 + x + 6 = x$$

$$4x + 12 = x$$

$$\frac{12}{-3} = \frac{-3x}{-3}$$

$$x = -4$$

$$\boxed{-4, -2, 0, 2}$$

$$\textcircled{10} \quad x + x + 2 + x + 4 = 285$$

$$3x + 6 = 285$$

$$\begin{array}{r} -6 \\ -6 \end{array}$$

$$\frac{3x}{3} = \frac{279}{3}$$

$$x = 93$$

$$\boxed{93, 95, 97}$$

$$\textcircled{12} \quad x + x + 2 + x + 4 + x + 6 = 0$$

$$4x + 12 = 0$$

$$\begin{array}{r} -12 \\ -12 \end{array}$$

$$\frac{4x}{4} = \frac{-12}{4}$$

$$x = -3$$

$$\boxed{-3, -1, 1, 3}$$

$$P1S^2 = 4 + x + 5 + x + x \quad (A)$$

$$3x + 10 = 9$$

$$3x = -1$$

$$\frac{3x}{3} = \frac{-1}{3}$$

$$x = -\frac{1}{3}$$

$$\boxed{17, -\frac{1}{3}, -\frac{1}{3}}$$

$$Q81 = 4 + x + 5 + x + x \quad (F)$$

$$3x + 10 = 18$$

$$3x = 8$$

$$\frac{3x}{3} = \frac{8}{3}$$

$$x = \frac{8}{3}$$

$$111 = 111$$

$$\boxed{8\frac{2}{3}, 11, 11}$$

$$x = 4 + x + 10 + x + x \quad (II)$$

$$4x + 10 = x$$

$$3x = -10$$

$$\frac{3x}{3} = \frac{-10}{3}$$

$$x = -\frac{10}{3}$$

$$\boxed{5, 0, -\frac{10}{3}}$$

$$S18 = 4 + x + 5 + x + x \quad (G)$$

$$3x + 10 = 318$$

$$3x = 308$$

$$\frac{3x}{3} = \frac{308}{3}$$

$$x = 102\frac{2}{3}$$

$$\boxed{102\frac{2}{3}, 104, 105}$$

$$0 = 4 + x + 5 + x + x \quad (S)$$

$$3x + 10 = 0$$

$$3x = -10$$

$$\frac{3x}{3} = \frac{-10}{3}$$

$$x = -\frac{10}{3}$$

$$x = -\frac{10}{3}$$

$$\boxed{-\frac{10}{3}, -\frac{10}{3}, -\frac{10}{3}}$$

$$P9S = 4 + x + 5 + x + x \quad (Q)$$

$$3x + 10 = 58$$

$$3x = 48$$

$$\frac{3x}{3} = \frac{48}{3}$$

$$x = 16$$

$$\boxed{17, 20, 20}$$