

LESSON 3.3 Practice B
For use with pages 148-153

Solve the equation.

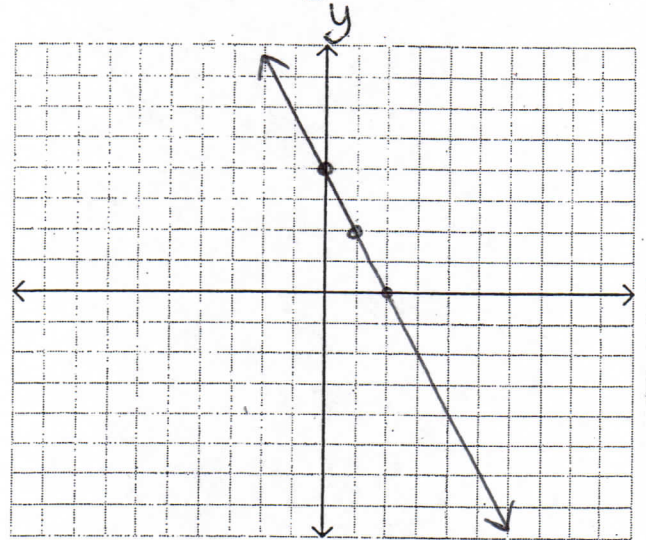
1. $16x - 15 - 9x = 13$ 4
2. $15m + 4 - 9m = -32$ -6
3. $3b - 9 - 8b = 11$ -4
4. $-31 = 8 - 6p - 7p$ 3
5. $9 + 4(x + 1) = 25$ 3
6. $7(d - 5) + 12 = 5$ 4
7. $10a + 5(a - 3) = 15$ 2
8. $19a - 3(a - 6) = 66$ 3
9. $\frac{1}{4}(x - 8) = 7$ 36
10. $\frac{1}{3}(d + 9) = -12$ -45
11. $\frac{3}{4}(n + 3) = 9$ 9
12. $-\frac{5}{2}(w - 1) = 15$ -5
13. $6.4 + 2.1(z - 2) = 8.5$ 3
14. $4.5 - 1.5(6m + 2) = 6$ -0.5
15. $15 = 4.3n - 2.1(n - 4)$ 3

For #16-17, graph the equations using a t-chart

#16

$$y = -2x + 4$$

x	y
0	4
1	2
2	0

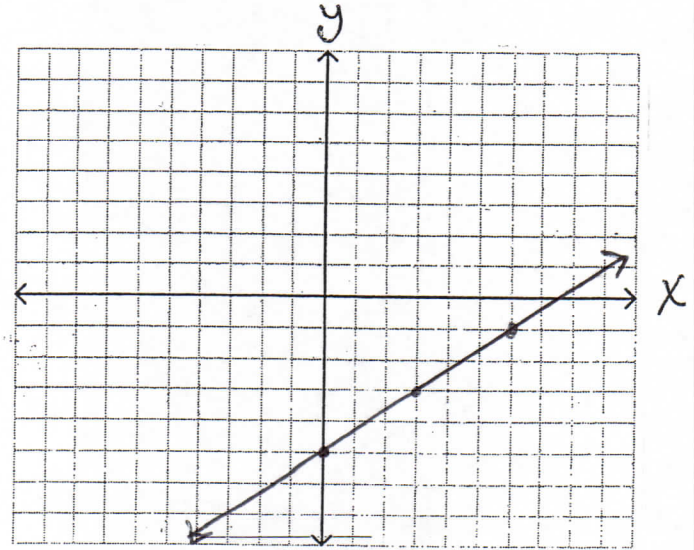


#17

$$y = \frac{2}{3}x - 5$$

- $x=0$ $y = \frac{2}{3}(0) - 5 \rightarrow y = -5$
 $x=3$ $y = \frac{2}{3}(\frac{3}{1}) - 5 \rightarrow y = -3$
 $x=6$ $y = \frac{2}{3}(\frac{6}{1}) - 5 \rightarrow y = -1$

x	y
0	-5
3	-3
6	-1



3.3 practice B

$$1) \underline{16x} + -15 + \underline{-9x} = 13$$

$$7x + \cancel{-15} = 13$$

$$\underline{\quad +15 \quad +15}$$

$$\left(\frac{1}{7}\right) 7x = 28 \left(\frac{1}{7}\right)$$

$$\boxed{x = 4}$$

$$2) \underline{15m} + 4 + \underline{-9m} = -32$$

$$6m + \cancel{4} = -32$$

$$\underline{\quad +4 \quad + -4}$$

$$\left(\frac{1}{6}\right) 6m = -36 \left(\frac{1}{6}\right)$$

$$\boxed{m = -6}$$

$$3) \underline{3b} + -9 + \underline{-8b} = 11$$

$$-5b + \cancel{-9} = 11$$

$$\underline{\quad +9 \quad +9}$$

$$\left(-\frac{1}{5}\right) -5b = 20 \left(-\frac{1}{5}\right)$$

$$\boxed{b = -4}$$

$$4) -31 = 8 + \underline{-6p} + \underline{-7p}$$

$$-31 = \cancel{8} + -13p$$

$$\underline{\quad + -8 \quad + 8}$$

$$\left(-\frac{1}{13}\right) -39 = -13p \left(-\frac{1}{13}\right)$$

$$\boxed{3 = p}$$

$$5) 9 + \underline{4(x+1)} = 25$$

$$\underline{9} + 4x + \underline{4} = 25$$

$$4x + \cancel{13} = 25$$

$$\underline{\quad +13 \quad + -13}$$

$$\left(\frac{1}{4}\right) 4x = 12 \left(\frac{1}{4}\right)$$

$$\boxed{x = 3}$$

$$6) \underline{7(d+5)} + 12 = 5$$

$$7d + \underline{-35} + \underline{12} = 5$$

$$7d + \cancel{-23} = 5$$

$$\underline{\quad +23 \quad +23}$$

$$\left(\frac{1}{7}\right) 7d = 28 \left(\frac{1}{7}\right)$$

$$\boxed{d = 4}$$

$$7) 10a + \underline{5(a+3)} = 15$$

$$\underline{10a} + \underline{5a} + -15 = 15$$

$$15a + \cancel{-15} = 15$$

$$\underline{\quad +15 \quad +15}$$

$$\left(\frac{1}{15}\right) 15a = 30 \left(\frac{1}{15}\right)$$

$$\boxed{a = 2}$$

$$8) 19a + \underline{-3(a+6)} = 66$$

$$\underline{19a} + \underline{-3a} + 18 = 66$$

$$16a + \cancel{18} = 66$$

$$\underline{\quad +18 \quad + -18}$$

$$\left(\frac{1}{16}\right) 16a = 48 \left(\frac{1}{16}\right)$$

$$\boxed{a = 3}$$

$$9) \left(\frac{4}{1}\right) \frac{1}{4} (x + -8) = 7 \left(\frac{4}{1}\right)$$

$$x + -8 = 28$$

$$\begin{array}{r} +8 \\ \hline \end{array}$$

$$\boxed{x = 36}$$

$$10) \left(\frac{3}{1}\right) \frac{1}{3} (d + 9) = -12 \left(\frac{3}{1}\right)$$

$$d + 9 = -36$$

$$\begin{array}{r} + -9 \\ \hline \end{array}$$

$$\boxed{d = -45}$$

$$11) \left(\frac{4}{3}\right) \frac{3}{4} (n + 3) = 9 \left(\frac{4}{3}\right)$$

$$n + 3 = 12$$

$$\begin{array}{r} + -3 \\ \hline \end{array}$$

$$\boxed{n = 9}$$

$$12) \left(\frac{-2}{5}\right) - \frac{5}{2} (w + -1) = 1 \frac{3}{5} \left(\frac{-2}{5}\right)$$

$$w + -1 = -6$$

$$\begin{array}{r} +1 \\ \hline \end{array}$$

$$\boxed{w = -5}$$

$$13) 6.4 + 2.1(z - 2) = 8.5$$

$$6.4 + 2.1z - 4.2 = 8.5$$

$$2.1z + 2.2 = 8.5$$

$$\begin{array}{r} + -2.2 \\ \hline \end{array}$$

$$\left(\frac{1}{2.1}\right) 2.1z = 6.3 \left(\frac{1}{2.1}\right)$$

$$\boxed{z = 3}$$

$$14) 4.5 + -1.5(6m + 2) = 6$$

$$4.5 + -9m + -3 = 6$$

$$-9m + 1.5 = 6$$

$$\begin{array}{r} + -1.5 \\ \hline \end{array}$$

$$\left(\frac{-1}{9}\right) -9m = 4.5 \left(\frac{-1}{9}\right)$$

$$\boxed{m = -0.5}$$

$$15) 15 = 4.3n + -2.1(n + -4)$$

$$15 = 4.3n + -2.1n + 8.4$$

$$15 = 2.2n + 8.4$$

$$\begin{array}{r} + -8.4 \\ \hline \end{array}$$

$$\left(\frac{1}{2.2}\right) 2.2n = 6.6 \left(\frac{1}{2.2}\right)$$

$$\boxed{3 = n}$$