

4<sup>th</sup>

6<sup>th</sup>


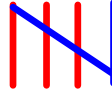


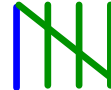


7<sup>th</sup>

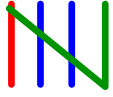
**55-59 - A:**

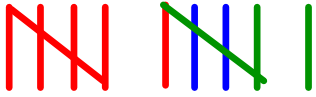
**50-54 - B:** 

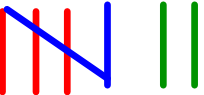
**43-49 - C:**   

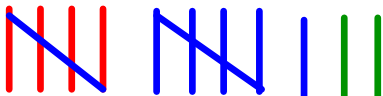
**38-42 - D:**  


**00-37 - F:**       

**50-53 - A:** 

**45-49 - B:** 

**39-44 - C:** 

**34-38 - D:** 

**00-33 - F:** 

18.  $18y - 8 = 4y - 3$

$$\begin{array}{r} -4y \quad -4y \\ \hline \end{array}$$

$$14y - 8 = -3$$

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

$$\begin{array}{r} 14y = 5 \\ \hline 14 \quad 14 \end{array}$$

$$y = \frac{5}{14} \leftarrow \text{exact}$$

$$y \approx \underline{\underline{.36}} \leftarrow \text{approx}$$

$$4. \frac{1}{8}(64r+32) = \frac{1}{2}(16r-8)$$
$$\frac{1}{\cancel{8}^8}(64r) + \frac{1}{\cancel{8}^4}(32) = \frac{1}{\cancel{2}^8}(16r) - \frac{1}{\cancel{2}^4}(8)$$
$$\begin{array}{r} 8r + 4 = 8r - 4 \\ \hline \end{array}$$

$$4 = -4$$

False ... No Solution

$$\begin{aligned}
 & 9. \quad 5 + 4(x-1) = 3(2+x) \quad 10 \\
 & 5 + 4(x) - 4(1) = 3(2) + 3(x) \\
 & \underline{5 + 4x - 4} = 6 + 3x \\
 & 4x + 1 = 6 + 3x \\
 & \underline{-3x} \qquad \qquad \underline{-3x} \\
 & x + 1 = 6 \\
 & \underline{-1} \quad \underline{-1} \\
 & \underline{\underline{x = 5}}
 \end{aligned}$$

1.  $27 - y = 7 - y$

$\frac{27 - y = 7 - y}{27 = 7}$

False No Solution

$$2. 18 + 5n = 8n$$

$$\begin{array}{r} 18 + 5n = 8n \\ -5n - 5n \\ \hline 18 = 3n \\ \hline 3 \quad 3 \end{array}$$

$$\underline{\underline{6 = n}}$$

1 Solution

28. How many hours do you need to use the trail to justify buying your own

$$\begin{array}{l} \text{Rent} \\ 10h \\ - 7h \\ \hline \end{array} = \begin{array}{l} \text{Own} \\ 7h + 28 \\ - 7h \\ \hline \end{array} \quad \boxed{10\text{hrs}}$$
$$\frac{3h}{3} = \frac{28}{3} \quad h \approx 9.33$$



..

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17.  $-13c + 51c = -26$

$$\frac{38c}{38} = \frac{-26}{38}$$

$$c = \frac{-13}{19}$$

$$\underline{\underline{c \approx -0.68}}$$

$$13. \frac{1}{2}(2k-4) = 3(k+2) - 3k$$

$$\frac{1}{2}(2k) - \frac{1}{2}(4) = 3(k) + 3(2) - 3k$$
$$k - 2 = \underline{3k} + 6 - \underline{3k}$$

$$k - 2 = 6$$
$$\begin{array}{r} + 2 \quad + 2 \\ \hline k = 8 \end{array}$$

$$\begin{aligned}
 12. \quad & x - 5(x + 2) = x + 3(3 - 2x) \\
 & x - 5(x) + 5(2) = x + 3(3) - 3(2x) \\
 & \underline{x - 5x - 10} = \underline{x + 9 - 6x} \\
 & -4x - 10 = -5x + 9 \\
 & \quad \quad \quad +5x \quad \quad +5x \\
 & \hline
 & \quad \quad \quad x - 10 = 9 \\
 & \quad \quad \quad \underline{+10 \quad +10} \\
 & \quad \quad \quad \underline{\underline{x = 19}}
 \end{aligned}$$

$$14. \quad \frac{1}{2}(6x - 3) = 6(2 + x) - 5$$

$$11. 8n + 4(-5 - 7n) = -2(n + 1)$$

12.  $x$

$$8n + 4(-5) - 4(7n) = -2(n) + -2(1)$$

$$\underline{8n} - 20 - \underline{28n} = -2n - 2$$

$$\begin{array}{r} -20n - 20 = -2n - 2 \\ +20n \qquad +20n \end{array}$$

$$\begin{array}{r} -18 = 18n \\ \hline -1 = n \end{array}$$

$$\begin{array}{r} -20 = 18n - 2 \\ +2 \qquad +2 \end{array}$$

$$\underline{\underline{-1 = n}}$$

$$13. \frac{1}{2}(2k - 4) = 3(k + 2) - 3k$$

$$14. \frac{1}{2}$$

$$21. \quad 3.2x - 4.9 = 8.4x + 6.7$$

$$\begin{array}{r} -3.2x \quad -3.2x \\ \hline \end{array}$$

$$-4.9 = 5.2x + 6.7$$

$$\begin{array}{r} -6.7 \quad -6.7 \\ \hline \end{array}$$

$$\begin{array}{r} -11.6 = 5.2x \\ \hline 5.2 \quad 5.2 \\ \hline \end{array}$$

$$-2.23 \approx x$$

19.  $3.6y + 7.5 = 8.2y$

$$\begin{array}{r} -3.6y \quad -3.6y \\ \hline \end{array}$$

$$\begin{array}{r} 7.5 = 4.6y \\ \hline 4.6 \quad 4.6 \end{array}$$

$$\underline{\underline{1.63y}}$$

$$\begin{aligned} 10. \quad & -3(4-r) + 4r = 2(4+r) \\ & -3(4) - 3(r) + 4r = 2(4) + 2(r) \\ & -12 + \underline{3r} + \underline{4r} = 8 + 2r \\ & \quad \quad \quad 7r - 12 = 8 + 2r \\ & \quad \quad \quad \underline{-2r} \\ & \quad \quad \quad 5r - 12 = 8 \\ & \quad \quad \quad \quad \quad \quad \underline{+12} \quad \underline{+12} \\ & \quad \quad \quad 5r = 20 \quad r = \underline{\underline{4}} \end{aligned}$$

$$\begin{aligned} 3. \quad & -4(x+4) = -2(2x+8) \\ & -4(x) + -4(4) = -2(2x) + -2(8) \\ & -4x - 16 = -4x - 16 \\ & \begin{array}{r} -4x - 16 \\ +4x \quad \quad \quad \\ \hline -16 = -16 \end{array} \end{aligned}$$

True Identity