

8-28-13

5th Geo

Solve for a variable review

$$\begin{aligned} \textcircled{1} \quad 6n - 1 &= \frac{-2n + 10}{+2n} \\ \hline 8n - 1 &= 10 \\ +1 \quad +1 & \\ \hline 8n &= 11 \\ \frac{8n}{8} &= \frac{11}{8} \\ n &= 1\frac{3}{8} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad 2n + 3n + 1 + 1 &= 3n + 6 + 1 + 2 \\ 5n + 2 &= 3n + 9 \\ -3n \quad -3n & \\ \hline 2n + 2 &= 9 \\ -2 \quad -2 & \\ \hline 2n &= 7 \\ \frac{2n}{2} &= \frac{7}{2} \\ n &= 3\frac{1}{2} \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad -3(2n - 1) &= 2(2n - 1) \\ -6n + 3 &= 4n - 2 \\ +6n \quad +6n & \\ \hline 3 &= 10n - 2 \\ +2 \quad +2 & \\ \hline 5 &= 10n \\ \frac{5}{10} &= \frac{10n}{10} \\ \frac{1}{2} &= n \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad 2n + 2n + 2n &= 3 + 4 + 11 \\ 6n &= 18 \\ \frac{6n}{6} &= \frac{18}{6} \\ n &= 3 \end{aligned}$$

$$\textcircled{5} \quad \text{SAT} \quad \text{If } \boxed{2n-1} = 3, \text{ what is } \boxed{10n-5}?$$

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$$\textcircled{6} \quad -6(n+y+2) = -6y + 22$$

$$-6n \begin{array}{c} -6y \\ +6y \end{array} - 12 = \begin{array}{c} -6y \\ +6y \end{array} + 22$$

$$-6n \begin{array}{c} -12 \\ +12 \end{array} = 22 + 12$$

$$\frac{-6n}{-6} = \frac{34}{-6}$$

$$n = -5\frac{4}{6}$$

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

$$\textcircled{7} \quad 2(3n+1) = 2n+2n+10$$

$$6n+2 = 4n+10$$
$$\begin{array}{r} -4n \qquad -4n \\ \hline \end{array}$$

$$2n+2 = 10$$
$$\begin{array}{r} -2 \qquad -2 \\ \hline \end{array}$$

$$\frac{2n}{2} = \frac{8}{2}$$

$$n = 4$$

8-28-13
6th Geo

$$\begin{aligned} \textcircled{1} \quad 3n-1 &= \cancel{-n} + 10 \\ +n & \quad +n \\ \hline 4n-1 &= 10 \\ \cancel{-1} & \quad +1 \\ \hline 4n &= 11 \\ \frac{4n}{4} &= \frac{11}{4} \\ n &= 2\frac{3}{4} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad n+n+2+3+1 &= n+6+10+1 \\ 2n+6 &= n+17 \\ -n & \quad -n \\ \hline n+6 &= 17 \\ -6 & \quad -6 \\ \hline n &= 11 \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad 3(2n+1)+6 &= n-8 \\ 6n+3+6 &= n-8 \\ 6n+9 &= n-8 \\ -n & \quad -n \\ \hline 5n+9 &= -8 \\ -9 & \quad -9 \\ \hline 5n &= -17 \\ \frac{5n}{5} &= \frac{-17}{5} \\ n &= -3\frac{2}{5} \end{aligned}$$

No difference between

$$-\frac{1}{2} \quad -\frac{1}{2} \quad -\frac{1}{2}$$

$$\begin{aligned} \textcircled{4} \quad 2(n+y-1) &= 2y+8 \\ 2n+2y-2 &= 2y+8 \\ -2y & \quad -2y \\ \hline 2n-2 &= 8 \\ +2 & \quad +2 \\ \hline 2n &= 10 \\ \underline{\underline{2n}} & \quad \underline{\underline{10}} \\ n &= 5 \end{aligned}$$

SAT

⑤ If $2n-1=9$, what is $10n-5$?

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⑥ $-2n - 3n - 1 = n + n + 6$

$$\begin{array}{r} -5n - 1 = 2n + 6 \\ +5n \quad +5n \\ \hline \end{array}$$

$$\begin{array}{r} -1 = 7n + 6 \\ -6 \quad -6 \\ \hline \end{array}$$

$$\begin{array}{r} -7 = 7n \\ \div \quad \div \\ \hline \end{array}$$

$$-1 = n$$