

One-Step Equations:SOLVING equations follows SAMDEB

① ② Last

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SAMDEB

$2(6) = 12 \checkmark$

$$1. \quad \frac{2x}{2} = \frac{12}{2}$$

$$\boxed{x = 6}$$

$$2. \quad \frac{-4n}{-4} = \frac{16}{-4}$$

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

$$3. \quad \frac{w}{5} = -7(5)$$

$$\boxed{w = -35}$$

$$4. \quad d + 8 = 3$$

$$\frac{-8}{-8} \quad \frac{-8}{-8}$$

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

$$5. \quad y - 11 = -24$$

$$\frac{+11}{+11} \quad \frac{+11}{+11}$$

$$\boxed{y = -13}$$

Two-Step EquationsSAMDEBFirst Style:

$$\begin{array}{r} 2n - 4 \\ 2(5) - 4 \\ 10 - 4 \\ 6 \end{array}$$

$$1. \quad \frac{-4}{+4} = \frac{6}{+4}$$

$$\frac{2n}{2} = \frac{10}{2}$$

$$\boxed{n = 5}$$

$$2. \quad \frac{3x - 2}{+2} = \frac{22}{+2}$$

$$\frac{3x}{3} = \frac{24}{3}$$

$$\boxed{x = 8}$$

$$\boxed{n = 5}$$

$$\boxed{x = 8}$$

$$\begin{aligned} 3. \quad 6f - 5 &= -29 \\ +5 \quad +5 \\ \hline 6f &= -24 \\ \hline f &= -4 \end{aligned}$$

$$\begin{aligned} 4. \quad -3n + 9 &= 15 \\ -9 \quad -9 \\ \hline -3n &= 6 \\ \hline n &= -2 \end{aligned}$$

$$\begin{aligned} 5. \quad 4n - 18 &= -6 \\ +18 \quad +18 \\ \hline 4n &= 12 \\ \hline n &= 3 \end{aligned}$$

$$\begin{aligned} 6. \quad \cancel{4x} + 16 &= 41 \\ -16 \quad -16 \\ \hline 5x &= 25 \\ \hline x &= 5 \end{aligned}$$

Second Style:

SOLVE WITH SAMDEB!

$$\begin{aligned} 1. \quad \frac{n}{5} + 8 &= -5 \\ \frac{n(5)}{5} &= 3(5) \\ \hline n &= 15 \end{aligned}$$

$$\begin{aligned} 2. \quad \frac{m}{3} + 4 &= 10 \\ -4 \quad -4 \\ \hline \frac{m(3)}{3} &= 6(3) \\ \hline m &= 18 \end{aligned}$$

check:

$$\begin{aligned} \frac{m}{3} + 4 \\ \frac{18}{3} + 4 \\ 6 + 4 &= 10 \checkmark \end{aligned}$$

Third Style:

SAMDEB
Brackets
are
LAST

Third Style :

Brackets
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LAST

$$1. \quad \cancel{\div 3} \quad 3(n+2) = \frac{12}{3}$$

$$n+2 = \frac{4}{-2}$$

$$\boxed{n = 2}$$

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Check:

$$\begin{array}{l} 3(n+2) = 12 \\ 3(2+2) \\ 3(4) \\ 12 \end{array}$$

$$3. \quad \cancel{\div -4} \quad -4(x+2) = 16 \quad \div -4$$

$$x+2 = \frac{-4}{-2}$$

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

$$2. \quad \cancel{\div 5} \quad 5(p-6) = \frac{45}{5}$$

$$p-6 = \frac{9}{+6}$$

$$\boxed{p = 15}$$

$$\text{check: } 5(p-6) = 45$$

$$\begin{array}{l} 5(15-6) \\ 5(9) \\ 45 \end{array}$$

$$4. \quad \cancel{\div -7} \quad 21 = \cancel{\div -7} \quad -7(d-11)$$

$$\frac{-3}{+11} = d - \frac{11}{+11}$$

$$\boxed{d = 8}$$