

$$\textcircled{1} 3(2+1)$$

POD
8-24

$\textcircled{2}$ give prime
factors
of
30

$$3(2+1)$$

$$3(3)$$

$$9$$

Given
P ()
skip E
m

another way

mult

$$3(2+1)$$

Given
Distribute
3
Add

$$6+3$$

$$9$$

factor

$$30$$

$$30$$

$$/ \quad \backslash$$

$$3 \quad 10$$

$$/ \quad \backslash$$

$$3 \quad 2 \quad 5$$

$$2 \quad 15$$

$$1 \quad / \quad \backslash$$

$$2 \cdot 3 \cdot 5$$

Factor means mult.
Therefore

$$\frac{\text{any factor}}{\text{itself}} = 1$$

① factor

② $\frac{F}{\text{itself}} = 1$

③ get rid of fractions

Dist. the denom.

④ Simplify
PEMDAS

⑤ SAMPERP } tells us
Solve } which #
to get rid
of first

Week 1.1
 1st week
 9 weeks
 1 week
 one

Solve for
 Variables

CK12

Ch. 1.1
 and
 1.2

Inverse

Opposite

$$x + 7 = 9$$

$$-7 \quad -7$$

Given

Subtract
 Prop =

∴

$$x = 2$$

$$\frac{-6x}{-6} = \frac{-102}{-6} \quad \left. \begin{array}{l} \text{Given} \\ \div = \text{prop} \end{array} \right\}$$

$$\begin{array}{r} 4 \\ 17 \\ \underline{6} \\ 102 \end{array}$$

$$x = \frac{2 \cdot 51}{2 \cdot 3}$$

$$x = \frac{51}{3}$$

$$x = \frac{3 \cdot 17}{3}$$

Reducing

$$\textcircled{x = 17}$$

| | |
|---|---|
| $\begin{array}{r} 6 \text{ (*)} \\ 4 \\ 17 \\ \hline -6 \\ \hline -102 \end{array}$ | $\left. \begin{aligned} -6x &= -102 \\ \hline -6 & \quad -6 \end{aligned} \right\} G$ |
| | $x = \frac{102}{6}$ |
| | $x = \frac{2 \cdot 51}{2 \cdot 3}$ |
| | $x = \frac{51}{3}$ |
| | $x = \frac{3 \cdot 17}{3}$ |
| | $x = 17$ |

$$4 \left(\frac{3x + 6}{4} = 9 \right)$$
$$\frac{4 \cdot 3x + 4 \cdot 6}{4} = 4 \cdot 9$$