Solve for x:

$9 = 3 - 3x$

$-3 \quad -3$

$\frac{6}{-3} = \frac{-3x}{-3}$

$x = -2$

$\frac{x}{4} + 9 = -13$

$-9 \quad -9$

$4 \cdot \frac{x}{4} = -22 \cdot 4$

$x = -88$

Give an example of the commutative property

$1 + 2 = 2 + 1$

Homework Check

11. −12	**12.** 5	**13.** −1
14. −50	**15.** −2	**16.** 72
17. −27	**18.** −3	**19.** 126
20. 100	**21.** −3	**22.** −5.5
23. 16 boxes		**24.** 3 bottles

Solving equations with fractions

$\frac{2}{3}x + 7 = -13$

$-7 \quad -7$

$\frac{3}{2} \cdot \frac{2}{3}x = -20 \cdot \frac{3}{2}$

$x = \frac{-60}{2}$

$x = -30$

$-3 - \frac{4}{5}x = 9$

$+3 \quad +3$

$-\frac{5}{4} \cdot -\frac{4}{5}x = \frac{12}{1} \cdot -\frac{5}{4}$

$x = \frac{-60}{4}$

$x = -15$

You Try!

$-7 + \frac{3}{4}x = -22$

$X = -20$

$\frac{2}{5}x + 8 = 2$

$X = -15$

$$\frac{(y-4)}{2}=10 \cdot 2$$

$y - y = 20$

$+4 \quad +4$

$y = 24$

$$7 \cdot -2 = \frac{d-7}{7} \cdot 7$$

$-14 = d - 7$

$+7 \quad +7$

$-7 = d$

$d = -7$

Challenge!

$$\frac{2}{3}x + \frac{1}{5} = \frac{2}{3}$$

$\frac{10}{15}$

$-\frac{1}{5}$ $-\frac{2}{3}$ $-\frac{3}{15}$

$\frac{3}{2} \cdot \frac{2}{3}x = \frac{7}{15} \cdot \frac{3}{2}$

$x = \frac{21}{30} \div 3$

$x = \frac{7}{10}$

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