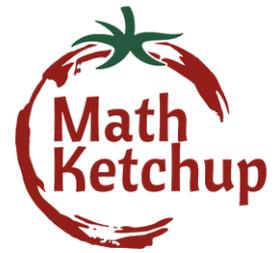# Linear Equation Word Problems
(one-step)

Level 1 - Create an equation and solve for the variable using one step

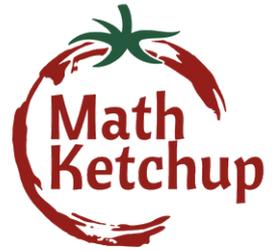Math Ketchup

Answers:

Level 1

a) $x - 5 = 17 \quad \Rightarrow \quad x = 22$	**k)** $15x = 60 \quad \Rightarrow \quad x = 4$
b) $8x = 24 \quad \Rightarrow \quad x = 3$	**l)** $200x = 1600 \quad \Rightarrow \quad x = 8$
c) $\frac{x}{7} = 3 \quad \Rightarrow \quad x = 21$	**m)** $12x = 85200 \quad \Rightarrow \quad x = 7100$
d) $x + 7 = 14 \quad \Rightarrow \quad x = 7$	**n)** $40x = 120 \quad \Rightarrow \quad x = 3$
e) $x - 10 = 44 \quad \Rightarrow \quad x = 54$	**o)** $4x = 28 \quad \Rightarrow \quad x = 7$
f) $x - 4 = 10 \quad \Rightarrow \quad x = 14$	**p)** $x - 12 = 38 \quad \Rightarrow \quad x = 50$
g) $x - 5 = 25 \quad \Rightarrow \quad x = 30$	**q)** $35 - x = 20 \quad \Rightarrow \quad x = 15$
h) $80 + x = 97 \quad \Rightarrow \quad x = 17$	**r)** $9x = 27 \quad \Rightarrow \quad x = 3$
i) $6x = 36 \quad \Rightarrow \quad x = 6$	**s)** $\frac{x}{4} = 8 \quad \Rightarrow \quad x = 32$
j) $6x = 114 \quad \Rightarrow \quad x = 19$	**t)** $3 + x = 24 \quad \Rightarrow \quad x = 21$

Linear Equation Word Problems
(two-step)

Level 2 - Create an equation and solve for the variable using two steps

Answers:

Level 2

a) $2x + 6 = 20 \Rightarrow x = 7$

b) $\frac{2x}{4} = 3 \Rightarrow x = 6$

c) $2x - 6 = -2 \Rightarrow x = 2$

d) $-3x + 3 = -12 \Rightarrow x = 5$

e) $\frac{2}{3}x + 4 = -2 \Rightarrow x = -9$

f) $15 + 2x = 65 \Rightarrow x = 25 \; cm$

g) $2 + 0.5x = 10 \Rightarrow x = 16 \; km$

h) $10 + 2x = 20 \Rightarrow x = 5$

i) $\frac{4b}{2} = 20 \Rightarrow b = 10$

j) $100 + 5x = 200 \Rightarrow x = 20$

k) $3x - 50 = 100 \Rightarrow x = 50$

l) $1000 - 0.8x = 500 \Rightarrow x = 625$

m) $50x + 200 = 900 \Rightarrow x = 14$

n) $C = \frac{F-32}{1.8}, \quad 10 = \frac{F-32}{1.8} \Rightarrow F = 50$