

Q = 1 = 14 cows eat 63 kg grass in 18 days.
How many cows will eat 770 kg grass
in 28 days?

Solve = Construct table

grass	days	Cows
63	18	14
770	28	x

$$\frac{x}{14} = \frac{770}{63} \times \frac{28}{18}$$

$$\frac{x}{14} = \frac{21560}{1134}$$

$$1134x = 21560 \times 14$$

$$x = \frac{21560 \times 14}{1134}$$

$$\boxed{x = 266.1}$$

Q = A food factory manufactures 560 fans in 7 days with 20 machines. How many fans would be manufactured in 12 days with 18 machines?

Solve = Construct table

days	Machine	Fans
7	20	560
12	18	x

$$\frac{x}{560} = \frac{18}{20} \times \frac{12}{7}$$

$$\frac{x}{560} = \frac{198}{70} = \frac{54}{35}$$

$$35x = 54 \times 560$$

$$35x = 30240$$

$$x = \frac{30240}{35}$$

$$x = 864$$

Q = If 270kg of corn would feed 42 horses for 21 days, for which many days would 360 kg of it feed 21 horses?

Solve =

corn	horses	days
270	42	21
360	21	x

$$\frac{x}{21} = \frac{42^2}{21} \times \frac{360}{270}$$

$$\frac{x}{21} = \frac{576}{189} \times \frac{360}{270}$$

$$\frac{x}{21} = \frac{2}{1} \times \frac{4}{3}$$

$$\frac{x}{21} = \frac{8}{3}$$

$$3x = 8 \times 21$$

$$3x = 168$$

$$x = \frac{168}{3}$$

$$x = 56$$

Q: The cost of 16 packet of salt, each weighting 900 grams in 84 dollars.
 What will be cost of 27 packets of salt each weighting 1kg?

Solve =

Packet	Weight	Cost
16	900g	84
27	1kg	x

$$\frac{x}{84} = \frac{16 \times 1}{27 \times 900}$$

$\therefore 1\text{kg} = 1000\text{grams}$

$$\frac{x}{84} = \frac{27}{16} \times \frac{1000}{900}$$

$$\frac{x}{84} = \frac{270}{154}$$

$$\frac{x}{84} = \frac{135}{77}$$

$$77x = 135 \times 84$$

$$77x = 11340$$

$$x = \frac{11340}{77}$$