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GSA (Math)

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## GSA (Math) Assignment

Question: 01

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

Solve:-

Step: 1 Draw table

	Cows	Grass in kg	Days
∴ unknown ↓ known	↑ 14	↑ 63	↓ 18
	x	770	28

Step: 2

Try to create equation

x = No of cows = ?

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

$$\frac{x}{14} = \frac{770}{7} \times \frac{1}{14}$$

$$x = \frac{770}{7} \times \frac{1}{14} \times 14 \Rightarrow 110 \times 1 \Rightarrow \boxed{x = 110}$$

- More Cows eat more grass  
so direct
- More cows Less Day (grass)  
so indirect

$$\begin{array}{r} \frac{770}{63} \times \frac{18}{28} \\ \frac{770}{63} \times \frac{18}{28} \\ \frac{770}{63} \times \frac{18}{28} \\ \frac{770}{63} \times \frac{18}{28} \\ \frac{770}{63} \times \frac{18}{28} \\ \frac{770}{63} \times \frac{18}{28} \\ \frac{770}{63} \times \frac{18}{28} \\ \frac{770}{63} \times \frac{18}{28} \\ \frac{770}{63} \times \frac{18}{28} \\ \frac{770}{63} \times \frac{18}{28} \end{array}$$

So, 110 Cows will eat 770kg grass in 28 days.

## GSA (Math) Assignment

Question: 02

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

Solve:-

Step: 1 Draw table

	Fans	Machines	Days
↑ unknown	560	20	7
↓ known	x	18	12

Step: 2 Try to create equation

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

$$\frac{x}{560} = \frac{18 \times 3}{35} \Rightarrow x = \frac{18 \times 3 \times 560}{35}$$

$$x = 864 \text{ Fans}$$

So, 864 fans would be manufactured in 12 days with 18 machines.

- More fans need more machines (Direct)
- More fan need more days (Direct)

$$\begin{array}{r} \frac{18}{20} \times \frac{12}{7} \times 560 \\ \frac{18}{5} \times \frac{12}{7} \times 560 \\ 864 \end{array} \quad \begin{array}{r} 112 \\ \frac{54 \times 560}{35} \\ \frac{35}{7} \\ \frac{54 \times 112}{7} \end{array}$$

## GSA (Math) Assignment

Question: 03

The price of 80 shirts is Rs 22000. What will be price of 30 shirts?

Solve:-

Given data:-

Shirts = 80 , Price = 22000/-

Find:-

Price of 30 shirts?

Now,

Step: 1

Price of 1 shirt = ?

$$\text{Price of 1 shirt} = \frac{22000}{80}$$

$$\begin{array}{r} 275 \\ 550 \\ \hline 2200 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 275 \\ \times 30 \\ \hline 000 \\ 8250 \\ \hline 8250 \end{array}$$

Price of 1 shirt = 275.Rs

Now, price of 30 shirts = ?

Step: 2

$$\begin{aligned} \text{Price of 30 shirts} &= 30 \times 275 \\ &= 8250 \end{aligned}$$

∴ per unit ×  
Total need unit

So, price of 30 shirts is Rs. 8,250/-