NTS GAT General Past Papes Questions

Quantitative – Exam No. 12

Mathematical Symbols

Prepared by: GAT Online Tutor

Formulas:

Symbol	Meaning	Symbol	Meaning
$\pm$	Plus minus	$\gg$	Much greater than
∞	Infinity	$\leq$	Less than or equal to
$>$	Greater than	$\geq$	Greater than or equal to
$\neq$	Is not equal to	$x + 5$	x more than 5
$x\%$	$x/100$	$x - 5$	x less than 5
$\in$	Element of	$5x$	5 times x
$\%$	Percentage	$\sqrt{}$	Square root
$!$	Factorial	$\cup$	Union
$\propto$	Proportional to	$\cap$	Intersection
$<$	Less than	Δ	Increment
$\ll$	Much less than	∇	Decrement

Exercise:

1. 4!

Solution:

$$4! = 4 \times 3 \times 2 \times 1$$
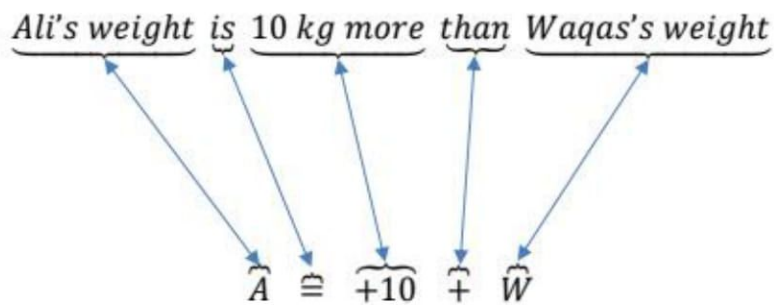$$4! = 24$$

2. 6!

Solution:

$$6! = 6 \times 5 \times 4 \times 3 \times 2 \times 1$$
$$6! = 720$$

3. Ali's weight is 10 kg more than Ahmad's weight.

Solution:

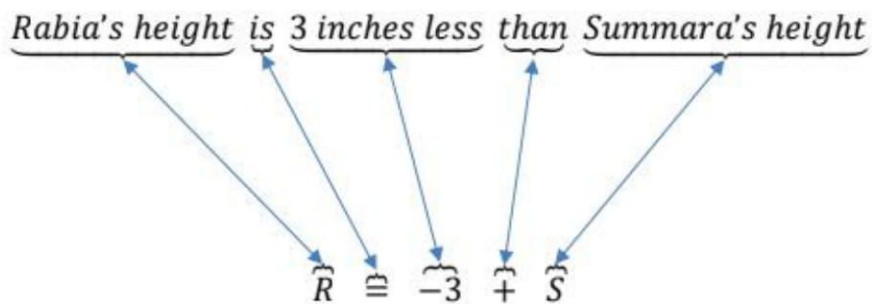*Ali's weight is 10 kg more than Waqas's weight*

$$A \triangleq +10 + W$$
$$A = W + 10$$

4. Rabia's height is 3 inches less than Summara's height.

Solution:

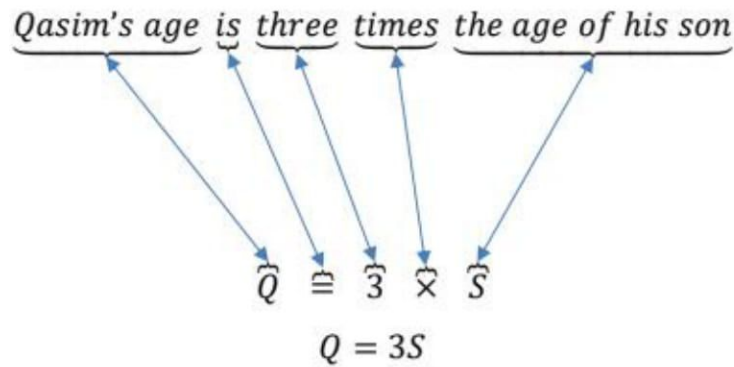*Rabia's height is 3 inches less than Summara's height*
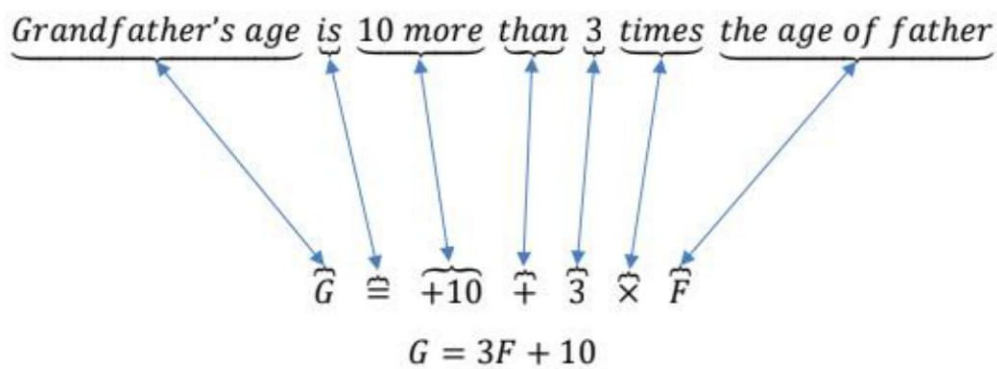
$$R \triangleq -3 + S$$
$$R = S - 3$$

5. Qasim's age is three times the age of his son.

Solution:

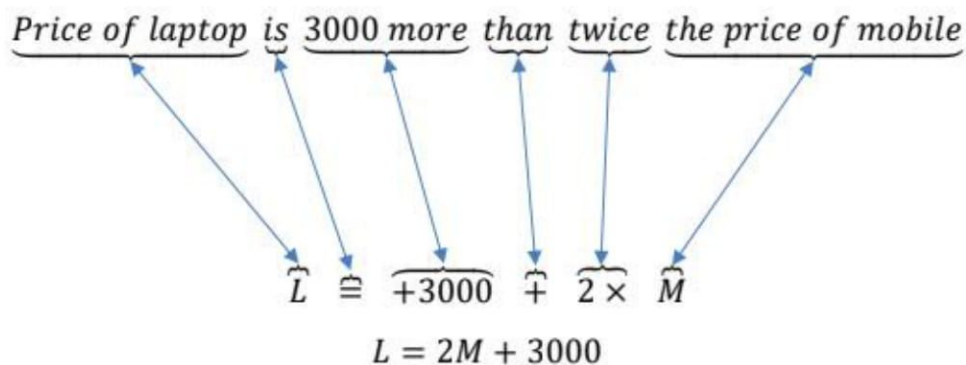$$Qasim's\ age\ \ is\ \ three\ \ times\ \ the\ age\ of\ his\ son$$

$$Q \quad = \quad 3 \quad \times \quad S$$

$$Q = 3S$$

6. Grandfather's age is 10 more than 3 times the age of father.

Solution:

$$Grandfather's\ age\ \ is\ \ 10\ more\ \ than\ \ 3\ \ times\ \ the\ age\ of\ father$$

$$G \quad = \quad +10 \quad + \quad 3 \quad \times \quad F$$

$$G = 3F + 10$$

7. Price of laptop is 3000 more than twice the price of mobile.

Solution:

$$Price\ of\ laptop\ \ is\ \ 3000\ more\ \ than\ \ twice\ \ the\ price\ of\ mobile$$

$$L \quad = \quad +3000 \quad + \quad 2 \times \quad M$$

$$L = 2M + 3000$$

8. Number of chairs are five less than seven times the number of tables.

Solution:

Number of chairs are five less than seven times the number of tables

$$C = -5 + 7 \times T$$

$$C = 7T - 5$$
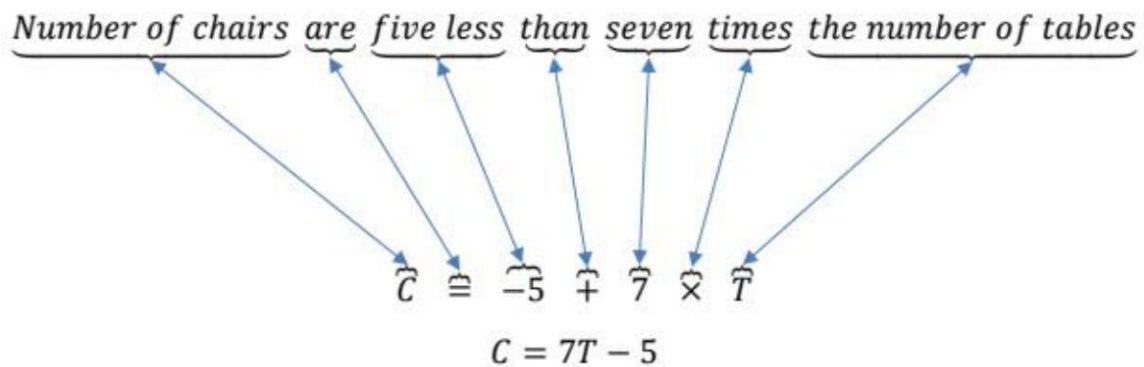
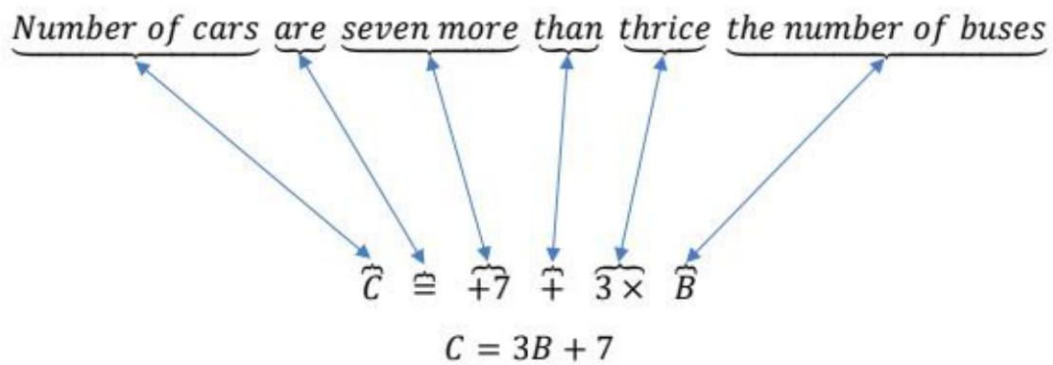**9.** Number of cars are seven more than thrice the number of buses.

Solution:

Number of cars are seven more than thrice the number of buses

$$C = +7 + 3 \times B$$

$$C = 3B + 7$$

10. X's age is 7 less than 4 times the age of Y.

Solution:

X's age is 7 less than 4 times the age of Y

$$X = -7 + 4 \times Y$$

$$X = 4Y - 7$$