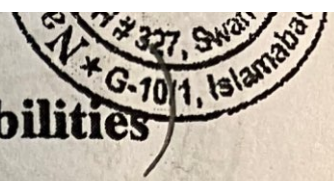


LMS
Assignment: General science & abilities



Question 1: 14 cows eat 63 Kg grass in 18 days. How many cows will eat 770Kg grass in 28 days?

Question 2: A factory manufactures 560 fans in 7 days with 20 machines. How many fans would be manufactured in 12 days with 18 machines?

Question 3: The price of 80 shirts is Rs.22000. What will be price of 30 shirts?

Question 4: a) Hamza spends 20% of his total income on house rent, 70% on domestic expenditure. If his savings is Rs.1800. What will be his total income?

b) Change into fractions 70%

c) Find 15% of 600.

Question 4: a) which fraction is larger in the following?

$$\frac{7}{9}, \frac{1}{4}, \frac{13}{36}$$

b) Solve:

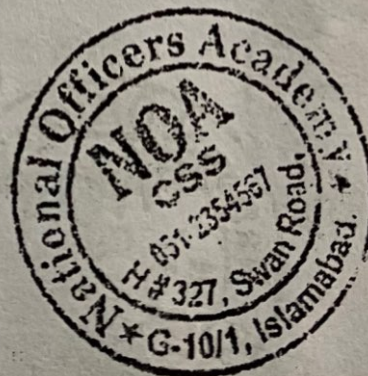
a) $(7)^2 + x - (2 \times 4) \div 2$

b) $9 + 3 + 3 \times 2$

c) $(x^2)^3 = ?$

d) $x^a \cdot x^b = ?$, $\frac{x^{a+b}}{x^{c-d}} = ?$

e) convert into meter: 10 cm



Question: 1

cows	grass(kg)	days
14	63	18
↑	↑	↓
x	770	28

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

attempt by giving statements.

$x = 110$ cows

also add final answer in the form of a statement.

$$\begin{array}{r} 21 \\ 3 \\ \hline 63 \\ 7 \overline{) 770} \\ 7 \\ \hline 7 \\ 7 \\ \hline 0 \end{array}$$

Question: 2

fans	days	machines
560	7	20
↑	↑	↑
x	12	18

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

$$x = \frac{54}{7} \times 112$$

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

$$\begin{array}{r} 16 \\ 7 \overline{) 112} \\ 42 \\ \hline 112 \\ 5 \overline{) 560} \\ 5 \\ \hline 6 \\ 5 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 2 \\ 54 \\ 16 \\ \hline 324 \\ 54 \times \\ \hline 864 \end{array}$$

Question 3

80 shirts 22000 Rs
 30 shirts x

$$\frac{x}{22000} = \frac{30}{80}$$

$$x = \frac{3 \times 22000}{8}$$

$$x = 2750 \text{ Rs. for 30 shirts}$$

3.5

5500
 $\sqrt{11000}$
 10
 10
 10
 25250
 $\sqrt{5500}$
 41
 15
 10
 50
 40
 10
 10
 x 0

Question 4

Rent = 20% of income
 Domestic = 70% of "
 Saving = 1800
 (a) Income = ?

Income = x
 Income = expenditure + Saving
 $x = \frac{90x}{100} + 1800$

$$x = \frac{90x + 180000}{100}$$

$$100x - 90x = 180,000$$

$$10x = 180,000$$

$$x = 18000 \text{ Income}$$

and.
 expenditure = Rent + Domestic
 $\frac{20x}{100} + \frac{70x}{100}$
 expenditure = $\frac{90x}{100}$

(b) $\frac{70}{100}$

(c) $\frac{15}{100} \times 600 = 90$

22 25250
 2
 2750 50500
 $\sqrt{5500}$
 41
 15
 14
 10
 16
 x

Question 5

$$(a) \quad \frac{4 \times 7}{4 \times 9} \quad \frac{1 \times 9}{4 \times 9} \quad \frac{13}{36}$$

$$\frac{28}{36} \quad \frac{9}{36} \quad \frac{13}{36}$$

Hence $\frac{7}{9}$ is the largest fraction

$$(b) \text{ (i) } (7)^2 + x - (2 \times 4) \div 2$$

$$49 + x - 8 \div 2 =$$

$$49 + x - 4 =$$

$$49 + x = 4$$

$$x = -45$$

$$(ii) (9) + 3 + 3 \times 2$$

$$= 9 + 3 + 6$$

$$= 18$$

$$(iii) (x^2)^3 = ?$$

$$x^6$$

$$(iv) x^a \cdot x^b = ?$$

$$x^{a+b}$$

$$(v) \frac{x^{a+b}}{x^{c-d}} = ?$$

$$x^{a+b} \cdot x^{-c+d}$$

$$x^{a+b-c+d}$$

(vi) Convert in meters: 10 cm

$$\frac{10}{100} = 0.1 \text{ meters.}$$

BOMAS