

Assignment: 1:-

Question: 2:-

① 14 cows eat, 63 kg grass in 18 days.

How many cows will eat 770 kg grass in 28 days?

Solution:

Grass (kg)	Cows	days
63	14	18
770	x	28

$$x : 14 :: \left[\begin{array}{l} 18 : 28 \\ 770 : 63 \end{array} \right]$$

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

$$x = \frac{18 \times 770 \times 14}{28 \times 63} = 110$$

$$\boxed{x = 110} \text{ cows}$$

write the final answer in the form of statement.

Question: 3:-

The price of 80 shirts is Rs. 22000

What will be price of 30 shirts?

Solution:-

Price of 80 shirts = 22000

Price of 1 shirt = $\frac{22000}{80} = 275$

Price of 30 shirts = 275×30

$$= 8250$$

$$\begin{array}{r} 275 \\ 8 \overline{) 2200} \\ \underline{16} \\ 60 \\ \underline{56} \\ 40 \\ \underline{40} \\ 0 \end{array}$$

Q.4:-

- i) Hamza spent 20% of his income on house rent, 70% on domestic expenditure. If his saving is 1800. What will be total income.

$$\begin{array}{r} 20 \\ \underline{20} \\ 0 \end{array}$$

Solution:-

Let total income = x .

House rent = 20% (x)

$$= \frac{20}{100} (x)$$

domestic expenditure = 70% (x)

$$= \frac{70}{100} (x)$$

domestic expenditure + House rent + saving = 100% (x)

$$70\% (x) + 20\% (x) + 1800 = 100\% (x)$$

$$90\% (x) + 1800 = 100\% (x)$$

$$1800 = 10\% (x)$$

$$1800 = \frac{10}{100} (x)$$

$$18000 = x$$

\Rightarrow Hamza's income is 18000.

ii) Change into fraction 70%

$$70\% = \frac{70}{100} = \frac{7}{10}$$

iii) Find 15% of 600.

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

Question 5:-

(i) Which fraction is larger in following?

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

$$\frac{4}{4} \left(\frac{7}{4}\right), \frac{9}{9} \left(\frac{1}{4}\right), \frac{13}{36}$$

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

So $\frac{28}{36}$ is larger.

answer out of the given in qs i.e 7/9

ii) solve

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

$$49 + x - (8) \div 2$$

DMAS

$$49 + x - 4 = 45 + x$$

d) $x^a \cdot x^b = ?$

$$= x^{a+b}$$

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

$$9 + 3 + 6 = 18$$

e) $\frac{x^{a+b}}{x^{c-d}}$

c) $(x^2)^3 = x^6$

$$= x^{(a+b) - (c-d)}$$

f) convert into meter: 10cm

$$10\text{cm} = 10 \times 10^{-2} \text{m}$$

$$= 0.1\text{m}$$

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

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

Question: 2:-

A food factory manufactures ^①560 fans in ^②7 days with ^③20 machines. How many fans would be manufactured in 12 days with 18 machines.

Solution:-daysmachinesfans

7 ↑
12 ↓

20 ↑

560 ↑

18

x ↑

$$\frac{x}{560} =$$

$$\frac{18}{20} \times \frac{12}{7}$$

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

$$= \frac{18 \times 12 \times 4}{1} = \frac{864}{7} = 123.7$$

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