

iii) $(x^2)^3$

Date

$$\begin{aligned} &= x^2 \cdot x^2 \cdot x^2 \\ &= x^6 \end{aligned}$$

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

$$= x^a \cdot x^b$$

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

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

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

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

(v) convert into meter : 10 cm.

$$= \frac{10}{100} \text{ m}$$

$$1 \text{ cm} = 0.01 \text{ m}$$

$$= \frac{1}{10}$$

$$= 0.1 \text{ m}$$

Date

Q: 5 (a) which fraction is largest in the following

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

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

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

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

(b)

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

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

$$= 49 + x - 4$$

$$= 45 + x$$

ii- $9 + 3 + 3 \times 2 = 9 + 3 + 6$

$$= 9 + 3 + 3 \times 2 = 9 + 3 + 6$$

$$= 9 + 3 + 6 = 9 + 3 + 6$$

$$= 18$$

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

(a) 20% of total income on house rent +
70% of total income on expenditure =
90% of total income his spent by himself.

100% of total income - 90% total expenditure =
= 10% savings.

A/c to the given condition:

$$\text{Rs } 1800 = 10\% \text{ savings}$$

$$10\% = \frac{1800}{x} \times 100$$

$$x = \frac{1800}{10} \times 100$$

$$\boxed{x = 18000} \text{ Rs Total income.}$$

(b) change into fractions 70%

sol: $\frac{70}{100}$

(c) Find 15% of 600

$$15 = \frac{x}{600} \times 100$$

$$\frac{15 \times 600}{100} = x$$

$$\boxed{x = 90}$$

$$\begin{array}{r} 3.15 \\ \times 6 \\ \hline 90 \end{array}$$

$$\frac{x}{560} = \frac{12 \times 20}{7 \times 18 \times 3}$$

$$x = \frac{2}{7} \times \frac{20}{3} \times 560$$

$$x = \frac{2 \times 20 \times 560}{21}$$

$$x = \frac{22400}{21}$$

$x = 1066$ fans

$$\begin{array}{r} 2560 \\ \times 40 \\ \hline 000 \\ 2240 \times \end{array}$$

$$\begin{array}{r} 2240 \overline{) 2240} \\ \underline{21} \\ 140 \\ \underline{126} \\ 140 \\ \underline{126} \\ 14 \end{array}$$

Q:3 The price of ⁸⁰ shirts is Rs 2200, what will be the price of 30 shirts?

$$80:30 :: 2200:x$$

$$\frac{80}{30} = \frac{2200}{x}$$

$$x = \frac{2200 \times 30}{80}$$

$$x = 275 \times 3$$

$x = 825$ rupees

$$\begin{array}{r} 2200 \overline{) 2200} \\ \underline{788} \\ 25150 \\ \underline{1100} \\ 2200 \times 30 \end{array}$$

$$\begin{array}{r} 80 \\ \underline{40} \\ 40 \\ \underline{20} \\ 20 \end{array}$$

$$\begin{array}{r} 2275 \\ \underline{3} \\ 825 \end{array}$$

Q:4 Har
rent
is Rs

(a) 20
7
90

100%
= 100

A/c

(b)

(c)

" MATHS ASSIGNMENT "

Date 12 / 7 / 23

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

cows	grass	days
↑ 14	↑ 63	↓ 18
↓ x	↓ 770	↓ 28

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

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

$$x = \frac{770}{7}$$

$x = 110 \text{ cows}$

$$\begin{array}{r} \text{L.w} \\ 110 \\ \hline 7 \overline{) 770} \\ \underline{7} \\ 70 \\ \underline{7} \end{array}$$

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

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