

2021  
Dec-12

# Abhyas maths Test

i)  $5:8$   
in % =  $5:8 \times 100$   
 $= 500:8 = 500/8$   
 $= 62.5$   
 $\underline{\underline{=}}$

ii) He spent half of his money,

$$\frac{1}{2}$$
$$= \frac{1 \times 50}{2 \times 50}$$
$$= \frac{50}{100}$$

he had spent only 50% of his savings.

(iii) 55% of 160 + 24% of 50 - 36% of 150

$$= \frac{(55 \times 160)}{100} + \frac{(24 \times 50)}{100} - \frac{(36 \times 150)}{100}$$
$$= 11 \times 8 + 12 - 18 \times 3 = 88 + 12 - 54 = 46.$$

(iv) 8.4% of a is 42

$$= \frac{8.4}{100} \times a = 42$$

$$= a = \frac{42 \times 100 \times 10}{8.4}$$

$$= a = 500$$

(v) Let the monthly income be = x

According to question

$$15\% \text{ of } x = 120$$

$$= \frac{15}{100} \times x = 120$$

$$x = \frac{120 \times 100}{15} = 800$$

96) Good ~~Apple~~ <sup>Apple</sup> are  $800 - 50 = 750$   
 $80\%$  of good ~~Apple~~ <sup>Apple</sup> =  $\frac{750 \times 100\%}{800}$

$$= \frac{375}{4}\% = 93\frac{3}{4}\%$$

97 Let the original salary be  $x$

$$= x + 20\% \text{ of } x = 150000$$

$$x(1 + 20/100) = 150000$$

$$x(6/5) = 150000$$

$$x = 150000 \times 5/6$$

$x = 125000$  is original salary

98 If the man spends  $87\%$  of salary, this means he saves  $100 - 87 = 13\%$  of salary.

But given, he saves R.S = 325

So,

$$13\% \text{ salary} = 325$$

$$= \frac{13}{100} \times \text{salary} = 325$$

$$\text{Salary} = \frac{325 \times 100}{13} = \text{RS } 2500$$

g9) Wrongly read number =  $3.265 = 0.36 = 9.93\%$

$$\bullet \text{ Percentage error} = \frac{5.87 \times 10^3 - 5.78 \times 10^3}{5.78 \times 10^3}$$

$$= 100\% = \frac{0.09}{5.78} \times 100\% = 1.56\%$$

$$\bullet = 9.93\%$$

$$= 1.56\%$$

g10) Let total votes be  $v$

$$= \frac{53}{100} v = \frac{47}{100} v = 12,366$$

$$\Rightarrow \frac{6}{100} v = 12,366$$

$$v = 2,06,100$$

So total votes = 2,06,100 and winning  
Candidate won =  $\frac{53}{100} \times 2,06,100$

$$= 1,09,233$$