

H.W

Given:-

Average temperature of week = 33°C
Average temp of M, T, W, T = 34
" " " " F, S, S = 35

To find:-

Temperature on Thursday = ?

Solution

Temperature of the week = 231
Temperature of M, T, W = $136 - x$
Temperature of F, S, S = 140

$$x (140 + 136) = 231$$

$$276 = 231$$

$$x = 276 - 231$$

$$= 45^{\circ}\text{C} \text{ Ans}$$

(ii)

Given

TT is what percent of 140
Formula:-

$$\text{Percent} = \frac{\text{Result}}{\text{Total}} \times 100$$

$$= \frac{1177}{140} \times 100$$

=

$$84.07\%$$

$$= \boxed{65\%} \text{ Ans}$$

(iii)

Given

25% of a number is 300

To find:-

Number = ?

Formula, $\text{Percent} = \frac{\text{Part}}{\text{Total}} \times 100$

Sol :-

$$25\% = \frac{300}{x}$$

$$\frac{25}{100} = \frac{300}{x}$$

$$x = 300 \times \frac{100}{25}$$

$$x = \boxed{1200} \text{ Ans}$$

(iv)

Given

Enrollment in 2020 = 850

Enrollment in 2022 = 1120

To find:

Percentage increase in enrollment = ?

Formula :

$$\left(\frac{\text{New enrolment} - \text{old enrolment}}{\text{old enrolment}} \right) \times 100$$

Solution

$$= \left(\frac{1120 - 850}{850} \right) \times 100$$

$$= \frac{270}{850} \times 100$$

$$= \frac{270}{17} \times 2$$

$$= \frac{540}{17}$$

$$= \boxed{31.7} \text{ Ans.}$$

Q,

A fruit seller had some items. He sells 40% item and now have 420 items. find total number

P.T.O

Given :

Items sold = 40%

Remaining 60% item = 420

To find

Total number of items = ?

Solution :

Let total number of items = ~~420~~
from given data

60% of items = 420 item

$$\frac{60}{100} x = 420$$
$$x = 420 \times \frac{100}{60}$$

$$= 700 \text{ item Ans}$$

(vi)

Calculate the marked price of surplus if it is sold for Rs. 79450 after discount of 10% on an other day. If 10% discount was given on same marked price same surplus before it is sold at further 8% would sale price

Given

Price after 18 percent Discount = 79950

To find:

Marked Price = ?

Marked price after successive discounts =

Let

Marked price is mp.

$$mp = Sp \times \text{discount rate}$$

$$82\% mp = 79950 \times$$

Since 18% is discount

$$\frac{82}{100} mp = 79950$$
$$mp = 79950 \times \frac{100}{82}$$

$$= \frac{3997500}{82}$$

$$mp = 97500$$

10% discount on marked price

$$\begin{array}{r} 97500 \\ 10\% \\ \hline 9750 \\ 87500 \end{array}$$

$$\text{Discount} = mp \times \text{discount rate}$$

$$= 97500 \times \frac{10}{100}$$

$$= 9750$$

$$= 97500 - 9750$$

$$= 87500$$

$$= \boxed{87750}$$

with further 8% discount on discounted price

$$= 87750 \times \frac{8}{100}$$

$$= \frac{68600}{100}$$

$$= 87750 - 6860$$

$$= \boxed{80530}$$

$$\begin{array}{r} 87750 \\ 886 \\ \hline 7889 \end{array}$$

The Sp price will not be same as after 18% Discount it is 79950 and after 10% and 8% discount price is

87750 and 80530 respectively.

(vi)

Given

Words Adam types in 30 minutes = 200

To find :-

Words in 12 minutes = ?

Solution

Words	:	minutes
200	:	30
x	:	12

$$\frac{x}{200} = \frac{12}{30}$$

$$x = \frac{12}{30} \times 200$$

$$x = 80$$

(vii)

Given

6 pipes are required to fill
the tank in 1 hour 20 minutes

∴

To find

Time = ?

when 5 such pipes are used

Solution

Pipe	Time in minutes
↓ 6	↑ 80 minutes
↓ 5	↑ x

$$\frac{x}{80} = \frac{6}{5}$$
$$x = \frac{6 \times 80}{5}$$

$x = 96$

(viii)

Given

If a number and its fifth part added become 48
find the number.

Solution

Let number = x

then

$$x + \frac{x}{5} = 48$$

$$\frac{x}{1} + \frac{x}{5} = 48$$

$$\frac{5x + x}{5} = 48$$

$$6x = 48 \times 5$$

$$6x = 240$$

$$x = \frac{240}{6}$$

$$x = 40$$

$$x = 40$$

$x = 40$ is the number

(ix)

Given ::

Sum of two numbers = 30

Difference of numbers = 8

To find:

Product of numbers = ?

Soln-

Let

Number one = x

Number Two = y

Then

$$x + y = 30 \quad \text{--- (i)}$$

$$x - y = 8 \quad \text{--- (ii)}$$

By finding the numbers
 $2x = 38$

$$x = \frac{38}{2}$$

$$x = 19 \quad \text{--- (3)}$$

$$19 + y = 30$$

$$y = 30 - 19$$

$$= 11$$

The numbers are
11 and 19

So

$$= 11 \times 19$$

$$= 209$$

The product of number is
209

Given

Price of 3 books & pens = 4350
Cost of 2 books & pen = 2800

To find:

Cost of one book = ?

Cost of one pen = ?

Let:

$$\begin{array}{l} \text{book} = x \\ \text{pen} = y \end{array}$$

$$3x + 8y = 4350 \quad \text{--- (i)}$$

$$2x + 5y = 2800 \quad \text{--- (ii)}$$

By multiplying equation (i) with 2 and
equation (ii) with 3

$$6x + 16y = 8700$$

$$6x + 15y = 8400$$

$$0 + y = 300$$

$$y = 300$$

by putting in equation (i)

$$3x + 8(300) = 4350$$

$$3x + 2400 = 4350$$

$$3x = 4350 - 2400$$

$$3x = 1950$$

$$x = \frac{1950}{3}$$

$$x = 650$$

one book's price = 60

One pen's price = 300

(XII)

Given

Worth of property = 1750000

Debt = 150000

remaining property = 1600000

To find:-

Share of son and a daughter
son's share is double than
daughter's

Let shares

$$x + 2x = 1600000$$

$$3x = 1600000$$

$$x = \frac{1600000}{3}$$

daughter's share

$$x = 533333.3$$

Son's Share = 2%

$$= 2 \times 533333.3$$

$$= 1066666$$