Work sheet solution

Date 20.08.2020

1. See the video class (Date-9.07.2020)
2. **Solution:**
   a. Given that Rahim income: Arman income=6:5

=6x4:5x4

=24:20

Arman income: Rafiq income=4:3

=4x5:3x5

=20:15

Therefore, Rahim income: Arman income: Rafiq income= 24:20:15

b. Given that Arman income is tk.20000
Rahim income: Arman income=24:20
Or, $\frac{\text{Rahim income}}{Arman\ income} = \frac{24}{20}$

Or, $\frac{Rahim\ income}{20000} = \frac{24}{20}$

Therefore, Rahim income = $\frac{20000\times24}{20}$taka

= 24000 takas

Again, Arman income: Rafik income=20:15
Or, $\frac{\text{Arman income}}{Rafik\ income} = \frac{20}{15}$

Or, $\frac{2000}{Rafik\ income} = \frac{20}{15}$

Therefore, Rafik income = $\frac{20000\times15}{20}$ taka

= 15000tk

So, total income of three person= (24000+20000+15000) taka

=59000tk

c. from a we get,

Rahim income: Arman income: Rafiq income= 24:20:15

Sum of the ratio of three persons= (24+20+15)

=59

Rahim will get = (5900x$\frac{24}{59}$) taka

=2400 taka

Arman will get = (5900x$\frac{20}{59}$) taka

= 2000 taka

Rafik will get = (5900x$\frac{15}{59}$) taka

=1500 taka

3. See the video class (Date-9.07.2020)

Solution: (4 and 5) Do your self

6.

Solution:

a. Given that Ratio of two number is 2:1

Sum of the ratio =2+1

=3

First number = $\frac{1}{3} \times 27$

= 9

Second number =$\frac{2}{3} \times 27$

=18

So larger number is 18 (Ans.)

b. Jamal, kamal and tamal father has divided taka 6300 amongst them

Let, Kamal gets Tk. x

According to the question,

Jamal gets= $(x \times \frac{3}{5}) = \frac{3x}{5} tk$

Tamal gets= $(x \times \frac{1}{2}) = \frac{x}{2}$ tk

A T Q, $x + \frac{3x}{5} + \frac{x}{2} = 6300$

Or, $\frac{10x+6x+5x}{10}$ = 6300

Or, $\frac{21x}{10} = 6300$

Or. $x = \frac{6300 \times 10}{21}$

So $x = 3000$

Therefore, Kamal gets 3000 takas

Jamal gets $\frac{3 \times 3000}{5} tk$

= 1800 tk.

Tamal gets = $\frac{3000}{2}$ taka

= 1500tk

c. total given money = (2100+6300) taka

= 8400 takas

According to the question,

A T Q, $x + \frac{3x}{5} + \frac{x}{2} = 8400$

Or, $\frac{10x+6x+5x}{10}$ = 8400

Or, $\frac{21x}{10} = 8400$

Or. $x = \frac{8400 \times 10}{21}$

So $x = 4000$

Therefore, Kamal gets 4000 taka

Jamal gets $\frac{3\times4000}{5}tk$

= 2400 tk.

Tamal gets =$\frac{4000}{2}$ taka

= 2000 taka