Divide Rs 500 between Arham, Marium and Sarim. So that Arham gets $\frac{2}{3}$ of what Marium gets and Marium gets $\frac{1}{4}$ of what Sarim gets. Find the share of each.

Solution=

Arham got = $\frac{2}{3}$ of Marium

Marium got = $\frac{1}{4}$ of Sarim

Let Sarim be = x ... eq'n

Now,

Marium got = $\frac{1x}{4}$ .... eq(ii)

Arham got = $\frac{2}{3}\left(\frac{1}{4}x\right) = \frac{2x}{12} = \frac{1x}{6}$ (iii)

Total Amount = 500

Total Parts = $\frac{x}{1} + \frac{1}{6}x + \frac{1}{4}x =$

Total Parts = $\frac{12x + 2x + 3x}{12} = \frac{17x}{12}$

Sarim's Share:

$\frac{17x}{12} = 500$

$17x = 500 \times 12$

$17x = 6000$

$x = \frac{6000}{17}$

$x = 353$ The decimal answer

2

Marium's Share = $\frac{1}{4}(353)$

= $\frac{354}{4}$

" = 88

Arham's Share = $\frac{1}{6}(353)$

" = $\frac{353}{6}$

" = 59

$- (4 -$

CSS 2018 - Q 6(D)

A man left his property of Rs, 640,000.
A debt of Rs. 40,000 was due to him
and R. 5000 was spent on his burial. Distribute
the amount between his widow, one
daughter & two sons according to islamic
law.

Sol :- Total Property left = Rs: 640,000
Debt = Rs: 40,000
Burial expenses = Rs: 5000
Share of Sons = 2 parts each son

Share of Daughter = 1 part each daughter

Share of Widow = $\frac{1}{8}$

Amount left after debt & burial =
640,000 - 45000 = 595,000.

Share of widow = 595,000 × $\frac{1}{8}$ = 74,375

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Amount Remaining is $= 595,000 - 74,375 = 520,625$

Now, Ratios of Share:

$2 + 2 + 1 = 5$ ✓

Share of Sons =

$\dfrac{4}{5} \times 520,625 = 416,500.$

Share of each son =

$\dfrac{416500}{2} = 208,250$ ✓

Share of one daughter =

$\dfrac{1}{5} \times 520,625 = 104,125.$

Write the final answers in the form of statements

(04

Page #17   Practice Problems.   Date: _____

Q:1 When 40% of a number is added to 42, the result is the number itself. Find the number :

Solution =

$$\frac{40}{100}x + 42 = x$$

$$\frac{2}{5}x - x \times 5 = 42$$

$$\frac{2x - 5x}{5} = -42$$

$$\frac{-3x}{5} = -42$$

$$3x = 42 \times 5$$

$$3x = 210$$

$$x = \frac{210}{3}$$

$$x = 70$$

Q:2 A metal bar weighs 8.15 ounces. 93% of the bar is silver. How many of silver are in the bar?

Solution =

Show all the steps

$$\frac{93}{100}(8.15)$$

$$0.93 \times 8.15$$

$$7.57 \text{ ou...}$$

7.57 ounces of silver is present in metal bar.

Q4: A student earned a grade of 80% in math that had 20 problems. How many problems in that test did the student answer correctly?

Solution:

$$\frac{80 \times 20}{100}$$

16 problems

16 problems were answered accurately by the student.

Q5: 1 kg of tea and 4 kg of sugar cost Rs: 35 but if sugar rises by 50% and tea 10% they would cost Rs: 42.50. Find the price per kg sugar.

Solution:

Total Parts = $1 + 4 = 5$

Total Cost = 35

· Price of tea = $\frac{1}{5} \times \overset{5}{35}$ = Rs. 5

Price of sugar = $\frac{4}{5} \times \overset{7}{35}$ = Rs: 24

Increase in price of sugar = $\frac{24 \times 50}{100}$ = Rs: 12

New price of sugar = $24 + 12 = 36$

To find per kg = $\frac{36}{4}$ Rs: 9

If there were 4 kg of sugar, than after increasing by 50%, each kg of sugar costs Rs: 9.

Date:_____

Q1: 14 cows eat 63kg grass in 18 days. How many cows will eat 770kg grass in 28 days?

Solution =

Cows	Quantity Of Grass	Days
↑ 14	↑ 63kg	↓ 18
x	770 kg	↓ 28

$$\frac{x}{14} = \frac{\cancel{770}^{385}}{\cancel{63}} \times \frac{\cancel{18}^{2}}{28} \times \frac{1}{14}$$

$$x = \frac{385 \times 2 \times \cancel{14}}{\cancel{7} \times \cancel{14}}^{55}_{1}$$

$$x = 55 \times 2$$

$$x = 110$$

110 cows will eat 770 kg of grass in 28 days.

Q2: A food factory manufactures 560 fans in 7 days with 20 machines. How many fans would be manufactures in 12 days with 18 machines?

Solution:

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

Date:_____

$$\frac{x}{560} = \frac{\overset{3}{\cancel{12}}}{17} \times \frac{\overset{9}{\cancel{18}}}{\underset{\frac{4}{2}}{\cancel{20}}}$$

$$x = \frac{27 \times \overset{280}{\cancel{560}}}{\frac{4}{\cancel{4}}}$$

$$x = \frac{7560}{17} \qquad 44\cancel{5.7} \approx 445$$

$$x = 445$$

445 ~~machines~~ would be manufactured.

Q3: The cost of 16 packets of salt, each weighing 900 grams in 84 dollars. What will be the cost of 27 packets of salt each weighing 1kg?

Solution:

Packets Of Salt	Weight	Cost in dollars
↑ 16	↑ 900 gm	84 ↑
↓ 27	↓ 1 kg = 1000 gm	x ↓

$$\frac{x}{84} = \frac{\overset{3}{27}}{\underset{8}{\cancel{16}}} \times \frac{\overset{5}{\cancel{1000}}}{\cancel{900}}$$

$$x = \frac{3 \times 5 \times \overset{21}{\cancel{84}}}{\underset{2}{\cancel{8}}}$$

$$x = 15 \times \qquad = \frac{315}{2}$$

$$x = 15 \cancel{\quad} \approx 158 \text{ dollars}$$

The cost of 27 ~~packets~~ of sa~~lt~~ will be 158 dollars.

Question: 4 If 270 kg of corn would feed 42 horses for 21 days, for how many days would 360kg of it feed for 21 horses?

Solution:

Corn	Horses	Days
270 kg	42	21
360 kg	21	x

$$\frac{x}{21} = \frac{\overset{2}{42}}{\underset{1}{21}} \times \frac{\overset{4}{360}}{\underset{3}{270}}$$

$$x = \frac{\overset{7}{8} \times 21}{\underset{1}{3}} = 56$$

$$x = 56 \text{ days}$$

For 56 days 21 horses can feed on 360kg