

**Finding Part From Whole**

Sheet 1

- 1) Roy rears Randall and Jersey cattle breeds in the ratio of 6 : 5. If he has a total of 242 cattle on his farm, how many Randall cattle and how many Jersey cattle does he own?

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- 2) Joanna is reading a storybook. The ratio of the number of pages she read to the pages that remain to be read is 7 : 3. If the book contains 500 pages in all, how many pages did Joanna read and how many pages remain to be read?

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- 3) George and Tanya typed in words in the ratio of 1 : 5 in 20 minutes. They typed 864 words altogether. Find the number of words that each of them typed.

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- 4) Mailmen, Carl and Wilbur deliver mails in the ratio of 3 : 8 in the month of April. If 1012 mails were delivered in all between them, how many mails did each of them deliver?

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- 5) A wire that is 117 inches long is cut in two in the ratio 8 : 1. Find the length of each piece of wire.

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**Answer key****Finding Part From Whole**

Sheet 1

- 1) Roy rears Randall and Jersey cattle breeds in the ratio of 6 : 5. If he has a total of 242 cattle on his farm, how many Randall cattle and how many Jersey cattle does he own?

**132 Randall cattle and 110 Jersey cattle**

- 2) Joanna is reading a storybook. The ratio of the number of pages she read to the pages that remain to be read is 7 : 3. If the book contains 500 pages in all, how many pages did Joanna read and how many pages remain to be read?

**She read 350 pages and 150 pages remain to be read**

- 3) George and Tanya typed in words in the ratio of 1 : 5 in 20 minutes. They typed 864 words altogether. Find the number of words that each of them typed.

**George typed 144 words and Tanya typed 720 words**

- 4) Mailmen, Carl and Wilbur deliver mails in the ratio of 3 : 8 in the month of April. If 1012 mails were delivered in all between them, how many mails did each of them deliver?

**Carl delivered 276 mails and Wilbur delivered 736 mails**

- 5) A wire that is 117 inches long is cut in two in the ratio 8 : 1. Find the length of each piece of wire.

**One wire measures 104 inches and the other 13 inches**

## Finding Part From Whole

Sheet 2

- 1) Aqua regia is a mixture of nitric acid ( $\text{HNO}_3$ ) and hydrochloric acid ( $\text{HCl}$ ) in the ratio 1 : 3. Find the quantity of nitric acid and hydrochloric acid used in 100 fluid ounces of Aqua regia.

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- 2) A manufacturing company generates a total of 7200 lbs of scrap in the months of May and June in the ratio of 5 : 1. What was the quantity of scrap recovered in May and June?

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- 3) Bill receives his allowance in the ratio of 5 parts and saves 2 parts. How much does he save?

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- 4) The ratio of corn to wheat is 3 : 5. How much of each is there in a total of 40 bushels?

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- 5) In a bag of mixed nuts, there are 7 walnuts for every 2 peanuts. If the bag contains 90 nuts in all, find the number of walnuts and peanuts it contains?

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**Answer key****Finding Part From Whole**

Sheet 2

- 1) Aqua regia is a mixture of nitric acid ( $\text{HNO}_3$ ) and hydrochloric acid ( $\text{HCl}$ ) in the ratio 1 : 3. Find the quantity of nitric acid and hydrochloric acid used in 100 fluid ounces of Aqua regia.

**25 fl.oz of  $\text{HNO}_3$  and 75 fl.oz of  $\text{HCl}$**

- 2) A manufacturing company generates a total of 7200 lbs of scrap in the months of May and June in the ratio of 5 : 1. What was the quantity of scrap recovered in May and June?

**6000 lbs of scrap in May and 1200 lbs in June**

- 3) Bill receives his salary in the ratio of 5 parts and saves 2 parts. How much does he save?

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- 4) The ratio of copper and brass is 3 : 5. How much of each is used?

**48 gms of copper and 80 gms of brass used**

- 5) In a bag of mixed nuts, there are 7 walnuts for every 2 peanuts. If the bag contains 90 nuts in all, find the number of walnuts and peanuts it contains?

**70 walnuts and 20 peanuts**

**Finding Part From Whole**

Sheet 3

- 1) The ratio of the angles of a triangle is  $3 : 4 : 5$ . If the sum of angles is  $180^\circ$ , find the measure of each angle.

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- 2) Joe and May drive 364 miles by car. Joe takes the driver's seat for four parts of the total distance and May drives the remaining 3 parts. How many miles did each of them drive?

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- 3) Frank and Jack collected 338 coins in all, how many coins did each collect?

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- 4) Three hundred tennis classes in the school are divided up for each sport. The ratio of tennis to other sports is  $6 : 11$ . How many tennis classes are there?

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- 5) The total yield of wheat and corn from 8 acres of land is 32 tons. If the ratio of the yield of wheat to corn is  $5 : 3$ , how many tons did each crop yield?

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**Answer key****Finding Part From Whole**

Sheet 3

- 1) The ratio of the angles of a triangle is 3 : 4 : 5. If the sum of angles is  $180^\circ$ , find the measure of each angle.

**$45^\circ, 60^\circ$  and  $75^\circ$**

- 2) Joe and May drive 364 miles by car. Joe takes the driver's seat for four parts of the total distance and May drives the remaining 3 parts. How many miles did each of them drive?

**Joe drove**

- 3) Frank and Jack collected 338 coins in all, how many coins did each collect?

**Frank collected**

- 4) Three hundred students are enrolled in tennis classes in the ratio of 6 : 11. How many students are enrolled in each sport?

**120 students for football classes and 220 for tennis classes**

- 5) The total yield of wheat and corn from 8 acres of land is 32 tons. If the ratio of the yield of wheat to corn is 5 : 3, how many tons did each crop yield?

**20 tons of wheat and 12 tons of corn**

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