

Ratio - Mixed Word Problems

Sheet 1

- 1) A truck carries apples, grapes, and blackberries in the ratio of 4 : 3 : 4. If the apples weigh 160 pounds, how much does the truckload of fruit weigh in total?

- 2) The ratio of lemon to water in 80 fl.oz of lemonade is 3 : 1. The lemonade was diluted further. If the new ratio was 2 : 2, how much water was added to dilute the lemonade?

- 3) The first angle in a triangle is two times the second angle. The second angle is 40 degrees. Find the third angle.

- 4) The scale of a map between two cities measures 3 cm on the ground for every 1 cm on the map. If the distance between two cities on the map is 10 cm, what is the actual distance between the two cities?

- 5) A sum of \$2700 is shared among Eric, Jo and Richard. Jo's share is two times that of Richard's share. Eric's share is three times that of Jo's share. Find Eric's share.

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Ratio - Mixed Word Problems

Sheet 1

- 1) A truck carries apples, grapes, and blackberries in the ratio of 4 : 3 : 4. If the apples weigh 160 pounds, how much does the truckload of fruit weigh in total?

The truck carried 440 pounds of fruit

- 2) The ratio of lemon to water in 80 fl.oz of lemonade is 3 : 1. The lemonade was diluted further. If the new ratio was 2 : 2, how much water was added to dilute the lemonade?

40 fl.oz

- 3) The first angle in a triangle is two times the second angle. The second angle is 40 degrees. Find the third angle.

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angle. The second angles in the

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- 4) The scale of a map between two cities measures 3 cm. The actual distance between the two cities on the ground is 30 km. Find the scale of the map.

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- 5) A sum of \$2700 is shared among Eric, Jo and Richard. Jo's share is two times that of Richard's share. Eric's share is three times that of Jo's share. Find Eric's share.

Eric's share is \$1800

Ratio - Mixed Word Problems

Sheet 2

- 1) Muriel's scores for Science, Math and English are in the ratio 3 : 5 : 7. If her highest score was 21, find the difference between the highest and the lowest score.

- 2) A rope is cut in two in the ratio 3.5 : 1.75. The difference between the lengths of the ropes is 94.5 in. What was the original length of the rope?

- 3) A room is 18 feet long and 12 feet wide. Find the ratio of the length to the width.

- 4) Steve covers a distance of 100 miles in 2 hours. How long will he take to travel 14 miles?

- 5) Lara and Mae are collecting seashells. For every 9 seashells that Lara picked, Mae gathered 7 seashells. If Lara collected 63 seashells, how many fewer seashells did Mae gather?

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Ratio - Mixed Word Problems

Sheet 2

- 1) Muriel's scores for Science, Math and English are in the ratio 3 : 5 : 7. If her highest score was 21, find the difference between the highest and the lowest score.

The difference is 12

- 2) A rope is cut in two in the ratio 3.5 : 1.75. The difference between the lengths of the ropes is 94.5 in. What was the original length of the rope?

Original

- 3) A room is 18 feet length to the width

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- 4) Steve covers a distance to travel 14 miles

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He will tak

- 5) Lara and Mae are collecting seashells. For every 9 seashells that Lara picked, Mae gathered 7 seashells. If Lara collected 63 seashells, how many fewer seashells did Mae gather?

Mae gathered 14 fewer seashells than Lara

Ratio - Mixed Word Problems

Sheet 3

- 1) Rhone earns an interest of \$30 per year for every \$500 deposited in his savings account. Calculate the interest earned if he has \$1250 in his account.

- 2) Find the ratio of the areas of two squares, if one square has a diagonal that is double the other.

- 3) The ratio of rock doves and cocka
doves and cocka
doves?

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- 4) The original leng
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e ratio of 3 : 2. Find

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- 5) A bacterium when magnified 40,000 times under an electron microscope attains a length of 4 cm. Find the length of the bacterium, if it is magnified 20,000 times?

Ratio - Mixed Word Problems

Sheet 3

- 1) Rhone earns an interest of \$30 per year for every \$500 deposited in his savings account. Calculate the interest earned if he has \$1250 in his account.

Interest earned is \$75

- 2) Find the ratio of the areas of two squares, if one square has a diagonal that is double the other.

The ratio of

- 3) The ratio of rock doves and cockatiels is 3 : 2. Find the ratio of rock doves to cockatiels.

The second

- 4) The original length of a wire is 12 cm. Find the length of the wire if it is increased by $\frac{1}{3}$ of its original length.

The length

- 5) A bacterium when magnified 40,000 times under an electron microscope attains a length of 4 cm. Find the length of the bacterium, if it is magnified 20,000 times?

2 cm under the microscope

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and aviary has rock doves and cockatiels in the ratio of 3 : 2. Find the ratio of rock doves to cockatiels.

Find the length of the wire if it is increased by $\frac{1}{3}$ of its original length.