Percentage as a Rate per Hundred - Guided Lesson Explanation

Explanation#1

Step 1) We know that a percent is 1 part out of 100.

1 % is equal to $\frac{1}{100}$ or 0.01. Proportions can be used to solve percent problems.

$$\frac{\text{part}}{\text{whole}} = \frac{\text{percent}}{100}$$

Step 2) First we have to find 30% of 350. Because the whole is 350 and the percentage is 30%.

Step 3) Let n represent the part. Write a proportion and find the cross products to solve for n.

$$\frac{n}{350} = \frac{30}{100}$$

100 n = 30 x 350

100 n = 10,500

100 n ÷ 100 = 10,500 ÷ 100

n = 105

So, Jolly got $105 back from her friend.

Explanation#2

Step 1) We know that a percent is 1 part out of 100.

1 % is equal to $\dfrac{1}{100}$ or 0.01. Proportions can be used to solve percent problems.

$$\dfrac{\text{part}}{\text{whole}} = \dfrac{\text{percent}}{100}$$

Step 2) First we have to find 20% of 200.

Let r represent the part. Write a proportion and find the cross products to solve for n.

$$\dfrac{r}{200} = \dfrac{20}{100}$$

100 r = 20 x 200

100 r = 4000

100 r ÷ 100 = 4000 ÷ 100

r = 40

Step 3) Now we have to find the cost of a bag.

Cost – discount = New Price

200 – 40 = 160

So, a customer can buy a bag for $160.

Explanation#3

Step 1) We know that a percent is 1 part out of 100.

1 % is equal to $\dfrac{1}{100}$ or 0.01. Proportions can be used to solve percent problems.

$$\frac{\text{part}}{\text{whole}} = \frac{\text{percent}}{100}$$

Step 2) How many bananas do we have?

1 dozen = 12 bananas

      4 dozen = 12 x 4 = 48

      4 dozen = 48 bananas

Step 3) What percentage of the bananas are gone?

Total percentage gone = percent to custard + percent to his son

50% = 40% + 10%

We have to find 50% of 60. Let r represent the part. Write a proportion and find the cross products to solve for n.

$$\frac{r}{48} = \frac{50}{100}$$

100 r = 50 x 48

100 r = 2,400

100 r ÷ 100 = 2,400 ÷ 100

r = 24

So, he has 24 bananas left.