

Percent Word Problems Worksheet

1. Shelley earned 20% more money in tips waitressing this week than last week. This week she earned \$72.00 in tips waitressing. How much money did Shelley earn last week in tips?

2. Lucy's savings account has 35% more money than her sister Edy's. Together, the girls have saved a total of \$206.80. How much money has each girl saved?

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1. Shelley earned 20% more money in tips waitressing this week than last week. This week she earned \$72.00 in tips waitressing. How much money did Shelley earn last week in tips?

Quantity = Percent \times Whole. Let m represent the number of dollars Shelley earned waitressing last week.

$$72 = \frac{120}{100}m$$

$$72 \left(\frac{100}{120} \right) = \frac{120}{100} \left(\frac{100}{120} \right) m$$
$$60 = m$$

Shelley earned \$60 waitressing last week.

2. Lucy's savings account has 35% more money than her sister Edy's. Together, the girls have saved a total of \$206.80. How much money has each girl saved?

The money in Edy's account corresponds to 100%. Lucy has 35% more than Edy, so the money in Lucy's account corresponds to 135%. Together, the girls have a total of \$206.80, which is 235% of Edy's account balance.

Quantity = Percent \times Whole. Let b represent Edy's savings account balance in dollars.

$$206.8 = \frac{235}{100} \cdot b$$

$$206.8 = \frac{47}{20} \cdot b$$

$$206.8 \cdot \frac{20}{47} = \frac{47}{20} \cdot \frac{20}{47} \cdot b$$

$$\frac{4,136}{47} = 1 \cdot b$$

$$88 = b$$

Edy has saved \$88 in her account. Lucy has saved the remainder of the \$206.80, so $206.8 - 88 = 118.8$.

Therefore, Lucy has \$118.80 saved in her account.