

Percent Word Problems Worksheet

1. Bella spent 15% of her paycheck at the mall, and 40% of that was spent at the movie theater. Bella spent a total of \$13.74 at the movie theater for her movie ticket, popcorn, and a soft drink. How much money was in Bella's paycheck?

2. On a road trip, Sara's brother drove 47.5% of the trip, and Sara drove 80% of the remainder. If Sara drove for 4 hours and 12 minutes, how long was the road trip?

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1. Bella spent 15% of her paycheck at the mall, and 40% of that was spent at the movie theater. Bella spent a total of \$13.74 at the movie theater for her movie ticket, popcorn, and a soft drink. How much money was in Bella's paycheck?

$$\$13.74 \rightarrow 40\%$$

$$\$3.435 \rightarrow 10\%$$

$$\$34.35 \rightarrow 100\%$$

Bella spent \$34.35 at the mall.

$$\$34.35 \rightarrow 15\%$$

$$\$11.45 \rightarrow 5\%$$

$$\$229 \rightarrow 100\%$$

Bella's paycheck was \$229.

2. On a road trip, Sara's brother drove 47.5% of the trip, and Sara drove 80% of the remainder. If Sara drove for 4 hours and 12 minutes, how long was the road trip?

There are two whole quantities in this problem. First, Sara drove 80% of the remainder of the trip; the remainder is the first whole quantity. 4 hr. 12 min. is equivalent to $4\frac{12}{60}$ hr. = 4.2 hr.

Quantity → %

$$4.2 \rightarrow 80\%$$

$$\frac{4.2}{80} \rightarrow 1\%$$

$$\frac{4.2}{80}(100) \rightarrow 100\%$$

$$\frac{420}{80} \rightarrow 100\%$$

$$\frac{42}{8} \rightarrow 100\%$$

$$5.25 \rightarrow 100\%$$

The remainder of the trip that Sara's brother did not drive was 5.25 hours. He drove 47.5% of the trip, so the remainder of the trip was 52.5% of the trip, and the whole quantity is the time for the whole road trip.

Quantity → %

$$5.25 \rightarrow 52.5\%$$

$$\frac{5.25}{52.5} \rightarrow 1\%$$

$$\left(\frac{5.25}{52.5}\right)(100) \rightarrow 100\%$$

$$\frac{525}{52.5} \rightarrow 100\%$$

$$10 \rightarrow 100\%$$

The road trip was a total of 10 hours.