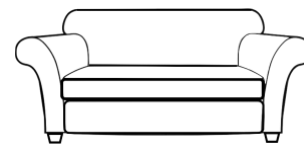
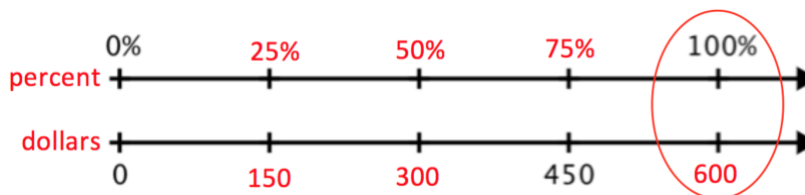


## Percent Change Tasks – Example Answers

- 1) A sofa is on sale for 25% off.  
The sale price is \$450.  
What was the original price?



- a. Complete the double number line to answer the problem:



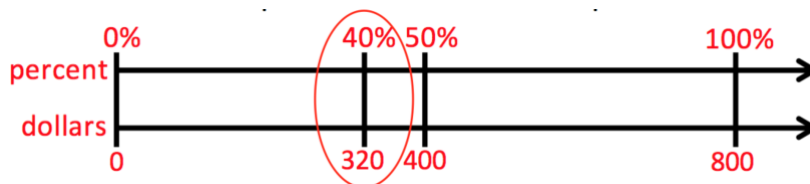
I saw that 3 intervals on the number line are \$450, so each interval is \$150. Then I added \$150 to \$450 to get \$600 at 100%.

- b. What was the original price?

The original price was \$600.

- 2) A computer has a sale price of \$320. The original price was \$800.  
What percent has been taken off the original price?

- a. Make a diagram to answer the problem:



I marked 50% as 400, and I noticed 320 is 80 less than 400. I know 80 is 10% of 800, so 320 is 50%-10%=40% of the original price. To get down to 40% of the original, the sale is 60% off.

- b. What percent has been taken off the original price?

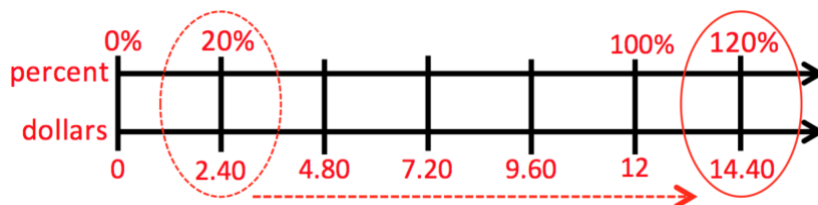
The computer is on sale for 60% off the \$800 original price.

## Percent Change Tasks – Example Answers

- 3) Khalil buys a T-shirt at a soccer game for \$12.00. He marks it up 20%, then he resells it. What is his markup amount?



- a. Make a diagram to answer the problem:



I marked 12 as 100%. Since I knew I needed 120%, I divided up the number line to 100% into 5 parts or 20% each, and divided 12 by 5 to get \$2.40 for each 20%. I added \$2.40 and \$12 to find the cost of the T-shirt when Khalil resold it, which is \$14.40.

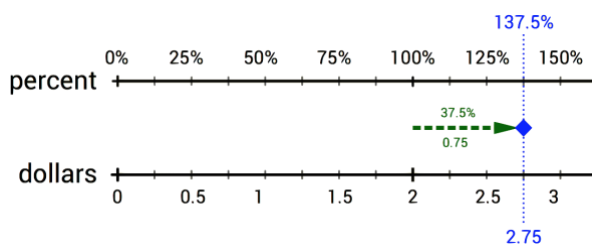
- b. What is Khalil's markup amount?

The markup amount is \$2.40, which is 20% of 12.

- 4) A grocer bought 5 pounds of potatoes from a local farmer for 40¢ per pound. She then sold them for \$2.75 for a 5-pound bag.



- a. Make a diagram to represent the problem context:



100% is 5(\$0.40) or \$2.00

- b. How much did she mark up the potatoes? She marked up the 5 lbs. of potatoes by \$0.75.
- c. What was the markup rate (as a percentage)? She marked up the potatoes 37.5%.