

1. Vocabulary Explain how the percent equation relates proportional quantities. [Lesson 3-3](#)

2. Colleen buys a movie for \$20 and pays 7% sales tax. Her cousin, Brad, lives in another state. Brad buys the same movie for \$22 and pays 6% sales tax. Who pays more sales tax? How much more? [Lessons 3-1 and 3-3](#)

3. Kamesh and Paolo each read 40 books in one year. Kamesh read 12 nonfiction books. Thirty-five percent of the books Paolo read were nonfiction. Who read more nonfiction books? How many more? [Lesson 3-2](#)

4. Val buys a computer for \$920. If this is 115% of what the store paid for the same computer, how much did the store earn on the sale? [Lesson 3-3](#)

5. For each situation, select the percent to answer the question. [Lessons 3-1, 3-2, and 3-3](#)

| | 5% | 15% | 20% | 25% |
|--|--------------------------|--------------------------|--------------------------|--------------------------|
| At an auto repair shop, 14 of the 56 cars received oil changes. What percent of the cars received oil changes? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Harry pays \$3.50 sales tax on a \$70 item. What is the sales tax rate? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| In a box of 250 paperclips, 50 are red. What percent of the paperclips are red? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Rylee saved \$9 on a \$60 pair of shoes. What percent did she save? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

6. Explain how you can use proportional reasoning to determine the whole if you know that 21 is 60% of the whole. [Lesson 3-2](#)

How well did you do on the mid-topic checkpoint? Fill in the stars.

