

6th Grade Unit 4: Lesson 21-3

Check Your Understanding (p. 269):

2. Tips are added because they are not included in the total bill.
3. $1.15x = 108$; \$93.91
4. Answers may vary.

Lesson 21-3 Practice (p. 270):

5. about 318,000,000 people; $33\frac{1}{3}\%$ is $\frac{1}{3}$ of 100. This means that $106,000,000 \times 3 =$ the population.
6. 300 students; $\frac{62}{100} = \frac{186}{x}$,
 $62x = 18,600$, $x = 300$
7. \$107.69; $\frac{100 - 35}{100} = \frac{70}{x}$,
 $65x = 7,000$, $x = 107.69$
8. \$49.76; $\frac{104.5}{100} = \frac{52}{x}$, $104.5x = 5,200$,
 $x = 49.76$
9. \$19.20
10. \$4.50
11. Sample answer: When you cross multiply in a proportion, you get $1,200 = 25w$. If you divide both sides by 100 you get: $12 = 0.25w$. This is equivalent to $12 = 25\% \times w$, because $25\% = 0.25$.