

Ratios and Unit Rates Worksheet Answer Key

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The table below shows students' reading preferences:

<i>Harry Potter</i>	35 students
<i>Twilight</i>	25 students
<i>Percy Jackson</i>	40 students
Total	100 students

1. What is the proportion of students who prefer *Harry Potter*?

$$\frac{35}{100} = \frac{7}{20}$$

2. What is the ratio of *Twilight* fans to *Percy Jackson* fans?

$$\frac{25}{40} = \frac{5}{8}$$

3. What is the ratio of students who prefer *Percy Jackson* to students who prefer *Harry Potter*?

$$\frac{40}{35} = \frac{8}{7}$$

The table below shows price per candy bar:

Shmestle Crunch Pack of 36	\$21.89
Shmickers Pack of 4	\$32.99
Shmounds Pack of 10	\$25.00

4. What is the unit price of Shmestle?

$$\frac{\$21.89}{36} = \$0.61$$

5. What is the unit price of Shmickers?

$$\frac{\$32.99}{4} = \$8.25$$

6. What is the unit price of Shmounds?

$$\frac{\$25.00}{10} = \$2.50$$

7. Which candy bar has the lowest unit price?
Shmestle

8. Convert 25 miles/hour to yards/second.

$$\frac{25 \text{ miles}}{1 \text{ hour}} \times \frac{1760 \text{ yards}}{1 \text{ mile}} \times \frac{1 \text{ hour}}{60 \text{ minutes}} \times \frac{1 \text{ minute}}{60 \text{ seconds}} = 12.22 \frac{\text{yd}}{\text{sec}}$$

9. In class, there are 20 brunettes and 5 blonds. What is the ratio of blonds to brunettes?

$$\frac{5}{20} = \frac{1}{4}$$

10. 20 out of 125 teenagers bought an iPhone or iPod App last week. What proportion of teens bought apps?

$$\frac{20}{125} = \frac{4}{25}$$

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