11. Which ratio represents the number of bananas to apples?

\[
\begin{array}{c|c|c}
\text{banana} & \text{pear} & \text{apple} \\
126 & 321 & 204 \\
\end{array}
\]

\[
a. \quad \frac{81}{124} \quad \frac{34}{21} \quad c. \quad \frac{124}{65} \\
d. \quad \frac{124}{81}
\]

12. Which is the better buy: 44 gallons of gas for $82 OR 32 gallons of gas for $68? Be sure to show your unit rates.

\[
\frac{44}{82} = 1.080 \text{$/gal} \\
\frac{68}{32} = 2.125 \text{$/gal}
\]

Solve the following proportions.

13. Lisa swims 1.5 laps every 20 seconds. How many laps will she swim in 5 minutes?

\[
9(x-5) = 7(x+10)
\]

14. Solve the following equation.

\[
\frac{9}{x+5} = \frac{7}{x-5}
\]

15. 62 is what percent of 145?

\[
\frac{x}{100} = \frac{62}{145} \quad 42.76\%
\]

16. A football kicker made 80% of his field goals during a season. The kicker made 20 field goals. How many field goals did he attempt?

\[
\frac{80}{x} = \frac{20}{100} \quad x = 25 \text{ field goals}
\]

Answer the following about simple interest.

17. Calculate the amount of interest you would pay if you borrowed $12,500 at a rate of 4.25% for 15 years.

\[
I = 12,500 \times 0.0425 \times 15 \quad \boxed{7,968.75}
\]

Answer the following. Make sure to show your work and write a sentence answering the question.

18. The average price of a new DVD in 1998 was $24. In 2012, the average price of a DVD is $18.15. Find the percent of change that has occurred with DVD prices.

\[
\frac{24 - 18.15}{24} \times 100 = 24.135\%
\]

Write the equation in function form.

19. \(5y - 4x = 15\)

\[
y = \frac{15 + 4x}{5} = 3 + \frac{4x}{5}
\]

20. \(5x + 2y + 6 = 9x + 8\)

\[
y = \frac{4x + 2}{2} = \frac{2y}{2} = x + 1
\]

Answer the following questions about discounts and tax.

21. Your mom asks you to go to the store and buy some pop for movie night.

a. When you get there you are excited to see that pop is on sale. You saved $3 on a normal $8 pack of Pepsi. Find the discount percent.

\[
\frac{3}{8} \times 100 = 37.5\%
\]

b. How much did you spend on the pop if Marysville charges 7% sales tax?

\[
5.00 + (5.00 \times 0.07) = 5.35
\]