

1. Fill in the chart.

	Meters	Yards	Centimeters	Feet	Inches
The Height of a Tower		66			

Give exact answers or round to 1 decimal place.

	Meters	Yards	Centimeters	Feet	Inches
The Height of a Tower	<input type="text"/>	66	<input type="text"/>	<input type="text"/>	<input type="text"/>

2. Complete the table converting percents, decimals, and fractions.

Percent	Decimal	Fraction
40%		
	0.965	
		$\frac{9}{10}$
42.5%		

Complete the table.

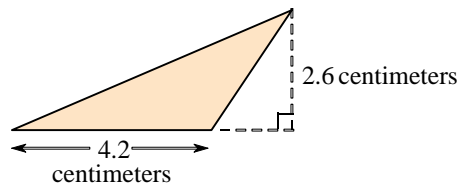
Percent	Decimal	Fraction
40%	<input type="text"/>	<input type="text"/>
<input type="text"/> %	0.965	<input type="text"/>
<input type="text"/> %	<input type="text"/>	$\frac{9}{10}$
42.5%	<input type="text"/>	<input type="text"/>

(Simplify your answers.)

3. The screen of a portable digital device is a rectangle that measures 3.5 inches by 2.8 inches. Find the area of the screen.

The area is square inches. (Type an integer or a decimal.)

4. Find the area of the triangle.



The area of the triangle is square centimeters.
(Type a whole number or a decimal.)

5. Write the decimal 359.006 in words.

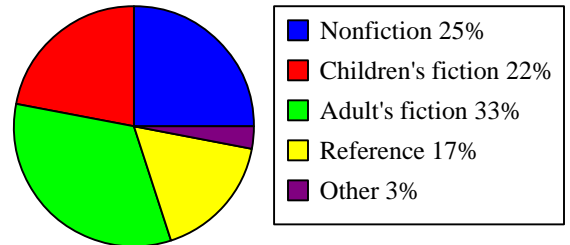
Choose the correct answer below.

- A. Three hundred fifty-nine point six
- B. Three hundred fifty-nine and six hundredths
- C. Three hundred fifty-nine and six thousandths
- D. Three hundred fifty-nine and six tenths

6. Marsha Waide borrows \$10,000 and agrees to pay it back in 5 years. If the simple interest rate is 15%, find the total amount she pays back.

She pays \$ back. (Round to the nearest dollar as needed.)

7. If this library has 142,000 books, find how many books are in the category of reference or other?



The number of books in the reference or other category is books.

8. Mark Tabbey's recipe for a certain kind of pudding calls for a 360°F oven. Find the temperature setting he should use with an oven having Celsius controls.

He should set the oven to °C.

(Simplify your answer. Round to the nearest tenth as needed.)

9. Simplify.

$$\frac{6.5 + 1.4 \times 100 - 9.3}{0.2}$$

$$\frac{6.5 + 1.4 \times 100 - 9.3}{0.2} = \text{ } \text{ (Type an integer or a decimal.)}$$

10. Gasoline was \$2.769 per gallon one week and \$2.989 per gallon the next. By how much did the price change?

The price of the gasoline changed by \$.

(Simplify your answer. Type a whole number or a decimal.)

11. Determine whether the proportion is a true proportion.

$$\frac{0.9}{0.2} = \frac{0.2}{0.1}$$

Choose the correct answer below.

- The proportion $\frac{0.9}{0.2} = \frac{0.2}{0.1}$ is a false proportion.
- The proportion $\frac{0.9}{0.2} = \frac{0.2}{0.1}$ is a true proportion.

12. A hybrid car averages 603 miles on a 12.7 gallon tank of gas. Manuel is planning a 1280-mile vacation in his hybrid car. Find how many gallons of gas he can expect to burn.

Manuel needs approximately gallons of gas for his vacation.

(Round to the nearest whole number as needed.)

13. Complete the chart.

Capacity	Cups	Gallons	Quarts	Pints
An average-size bath of water	?	20	?	?

Convert the given quantity of water to the other U.S. units of capacity.

Capacity	Cups	Gallons	Quarts	Pints
An average-size bath of water	<input type="text"/>	20	<input type="text"/>	<input type="text"/>

14. Complete the table.

Purchase Price	Tax Rate	Sales Tax	Total Price
\$68	5.0%		

Purchase Price	Tax Rate	Sales Tax	Total Price
\$68	5.0%	\$ <input type="text"/>	\$ <input type="text"/>

15. Complete the chart.

	Meters	Millimeters	Kilometers	Centimeters
Distance from city A to city B			330	

	Meters	Millimeters	Kilometers	Centimeters
Distance from city A to city B	<input type="text"/>	<input type="text"/>	330	<input type="text"/>

16. Fill in the chart. The first row is completed for you.

Decimal Number in Standard Form	In Words	Fraction
0.37	thirty-seven hundredths	$\frac{37}{100}$
0.051		

Decimal Number in Standard Form	In Words	Fraction
0.37	thirty-seven hundredths	$\frac{37}{100}$
0.051	<input type="text"/>	<input type="text"/>

17. Complete the chart.

Tons	Pounds	Ounces
	1,668	

Tons	Pounds	Ounces
<input type="text"/>	1,668	<input type="text"/>

18. What percent of 25 is 40?

The answer is %.

19. Find the ratio of the width of this basketball court to its perimeter.



The ratio of the width of this basketball court to its perimeter is .

(Type the ratio as a simplified fraction.)

20. Find each unit price and decide which is the better buy. Assume that we are comparing different sizes of the same brand.

Crackers:

\$1.29 for 6 ounces

\$1.49 for 8 ounces

The unit price for the 6-ounce package is approximately \$ per ounce.

(Round to three decimal places as needed.)

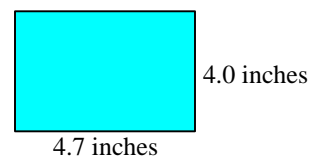
The unit price for the 8-ounce package is approximately \$ per ounce.

(Round to three decimal places as needed.)

Which is the better buy?

- 8-ounce package
- 6-ounce package

21. The top face of a music player measures 4.7 inches by 4.0 inches. Find the perimeter of the rectangular face.



The answer is inches.

22. The U.S.-based motorcycle manufacturer says that it expects to build 143,000 motorcycles this year, up from 133,000 last year. Find the percent of increase in production.

The percent of increase is %.

(Round to the nearest tenth of a percent.)

23. 170% of what number is 238?

The answer is .

(Type an integer or a decimal. Round to the nearest tenth.)

24. Complete the chart.

Grams	Kilograms	Milligrams	Centigrams
		130	

Grams	Kilograms	Milligrams	Centigrams
<input type="text"/>	<input type="text"/>	130	<input type="text"/>

25. Write the list of numbers in order from smallest to largest.

$$\frac{5}{4}, 1.38, \frac{15}{8}$$

The numbers from smallest to largest are , , .

26. Complete the table.

Sale	Commission Rate	Commission
\$359,600	4%	?

Fill in the table below.

Sale	Commission Rate	Commission
\$359,600	4%	\$ <input type="text"/>

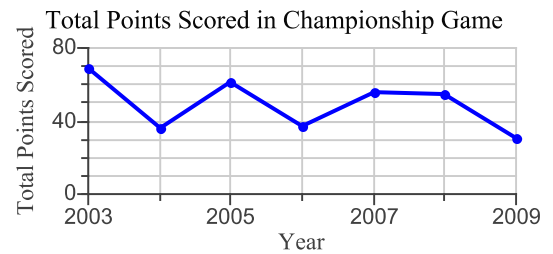
(Simplify your answer. Type an integer or a decimal.)

27. Convert as indicated.

34.5 liters to gallons

34.5 L \approx gal (Round to two decimal places as needed.)

28. The line graph to the right shows the total points scored by both teams in a championship game from 2003 through 2009. During which of the years shown were the total points scored in the game greater than 60?



During the year(s) , there was a total of more than 60 points scored in the championship game.
(Use a comma to separate answers as needed.)

29. Round to the nearest hundredth.

30.424

The answer is .

30. People drive, on average, 13,100 miles per year. About how many miles each week is that?

People drive about miles each week.
(Round to the nearest tenth as needed.)

31. Complete the chart.

	Yards	Feet	Inches
Python length		35	

	Yards	Feet	Inches
Python length	<input type="text"/>	35	<input type="text"/>

(Simplify your answers.)

1. 60.4
6035
198
2376

2. 0.4
 $\frac{2}{5}$
 $96\frac{1}{2}$
 $\frac{193}{200}$
90
0.9
0.425
 $\frac{17}{40}$

3. 9.8

4. 5.46

5. C

6. 17,500

7. 28,400

8. 182.2

9. 686

10. 0.22

11. the first choice

12. 27

13. 320
80
160

14. 3.40
71.40

15. 330,000
330,000,000
33,000,000

16. fifty – one thousandths
 $\frac{51}{1000}$

17. 0.834
26,688

18. 160

19. $\frac{1}{10}$

20. 0.215
0.186
the first choice

21. 17.4

22. 7.5

23. 140

24. 0.13
0.00013
13

25. $\frac{5}{4}$
1.38
 $\frac{15}{8}$

26. 14,384

27. 8.97

28. 2003,2005

29. 30.42

30. 251.9

31. $11\frac{2}{3}$
420
