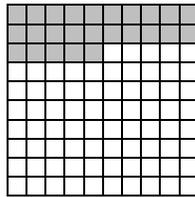


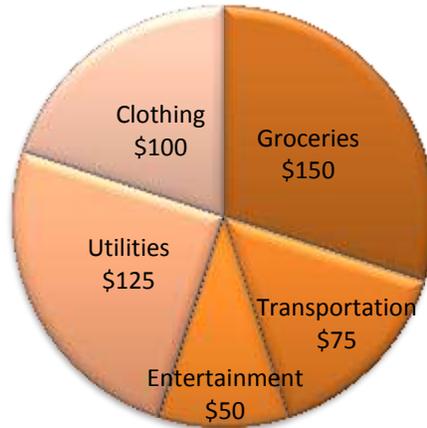
## Practice Problems for MTE 2 – Operations with Positive Decimals and Percents

1. Write “twenty-one and fifty-six thousandths” as a number.
2. Identify the place value of the digit 7 in the number 0.4715.
3. Add.  $9.69 + 1.4$
4. Multiply 0.35 and 2.9.
5. Divide 52.7 by 3.4.
6. Simplify.  $2.4 + 3.15 \cdot 2$
7. Round 0.4327 to the nearest hundredth.
8. Estimate  $8.24 + 6.4705$  by first rounding each number to the nearest whole number. Give your estimate as a whole number.
9. Estimate  $3.49 \times 7.508$  by first rounding each number to the nearest whole number. Give your estimate as a whole number.
10. The square below contains 100 smaller squares, and 25 of them are shaded. What percent of the whole is shaded?



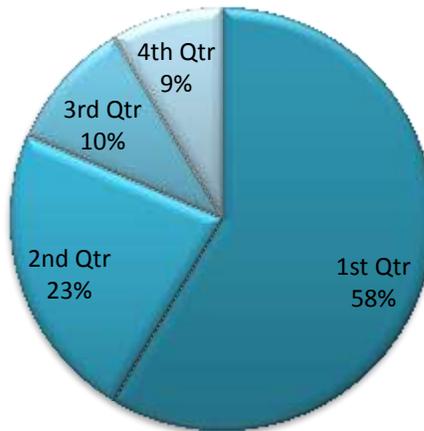
11. Write  $\frac{5}{8}$  as a percent.
12. Convert  $\frac{3}{16}$  to a decimal.
13. Convert 0.83 to a fraction
14. Write 20% as a fraction in simplest form.
15. Write 12.5% as a decimal.
16. Order the list of fractions and decimals from smallest to largest.  $\frac{5}{6}$ , 0.658,  $\frac{7}{10}$ , 0.75
17. 30 is what percent of 150?
18. Mrs. Toner’s fifth-grade class increased from 16 students last year to 20 students this year. What percent increase is this?
19. At the local paper mill, the number of industrial accidents decreased from 15 accidents last month to just 9 accidents this month. Find the percent decrease.
20. A laptop computer is priced at \$650. If the sales tax is 5%, find the total cost of the computer, including sales tax.
21. Scott Samuels had pharmaceutical sales of \$42,500 last month. If his commission rate is 9%, find the amount of his commission.
22. Bill and Sue Maples borrowed \$8,000 for 2 years at a simple interest rate of 18% per year. How much interest will they pay?
23. In the pie chart below, what percent of the Johnson’s weekly expenses are spent on clothing?

## Johnson Family Weekly Expenses



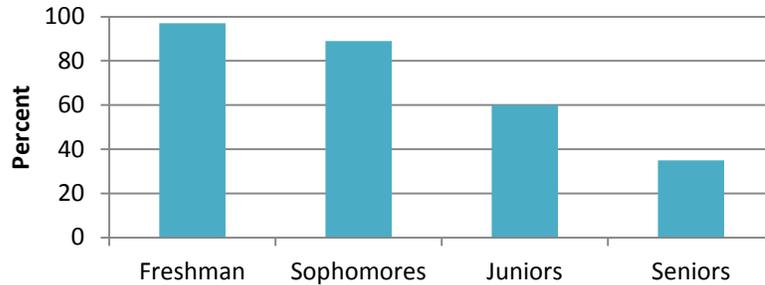
24. The pie chart below shows sales by quarter for Smith Plumbing. If the total sales for the year are \$360,000, calculate the sales for the 3<sup>rd</sup> Quarter.

## Yearly Sales for Smith Plumbing



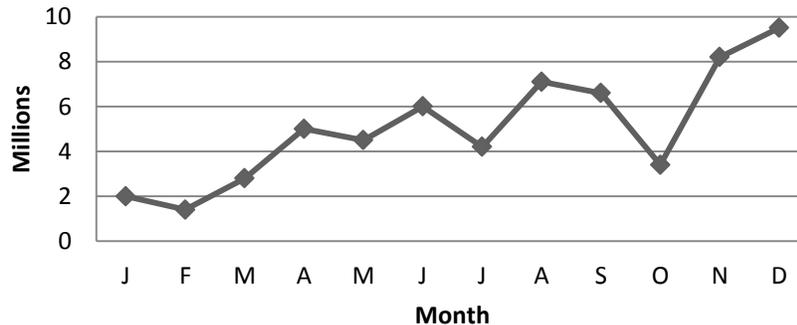
25. Using the bar graph below, determine how many Juniors are taking a math class if there are a total of 450 Juniors at the high school.

**Students Taking a Math Class**



26. Using the line graph below, which month shows the greatest increase in sales for G-Mart?

**Monthly Sales for G-Mart**



27. Convert 7 feet to inches.
28. Convert 24 ounces to pounds.
29. Convert 1.28 meters to centimeters.
30. Convert 2.6 kilograms to grams.
31. Convert 750 milliliters to liters.
32. Using the conversion table, convert 5 quarts to liters.
33. Using the conversion table, convert 10 centimeters to inches.
34. Convert  $2\frac{1}{2}$  hours to minutes.
35. Convert 68 degrees Fahrenheit to Celsius, using the formula  $C = \frac{5}{9}(F - 32)$ .
36. Convert 15 degrees Celsius to Fahrenheit, using the formula  $F = \frac{9}{5}C + 32$ .
37. Jason is serving a 10-kilogram turkey to 28 people. How many grams of meat is he allowing for each person? Round to the nearest whole gram.
38. Dan orders supplies for the science labs. Each of the 24 stations in the chemistry lab needs 2 feet of rubber tubing. If rubber tubing sells for \$8.75 per yard, how much will it cost to equip all the stations?