

1. Brad and his mom went out for lunch and the bill came to \$25.45. His mom wanted to leave a 18% tip. How much tip should they leave and what is the total bill?
  
2. Mike went to the computer store to buy a new tablet. The tablet cost \$299. The sales tax is 8.25%. What will the sales tax be? What will he pay for the tablet?
  
3. Mrs. Roberts wants to buy a new TV for the family room. The TV regularly cost \$1299, but is discounted 20%. How much will she save by buying the computer on sale? What will she pay for the computer?
  
4. It cost the shoe factory \$16.25 to make a pair of BlueZoooom running shoes. The mall sells them for \$69.07. What is the percent mark-up?
  
5. Carrie earned \$250 over summer vacation. She decided to put it in the bank to earn interest. Her bank has a CD deal and she can earn 1.5% if she leaves the money in the bank for 3 years. At the end of 3 years, how much money will Carrie have?

6. The intermural badminton club started off with 25 teams in September. In January, they had a total of 40 teams. What is the percent of change in the amount of teams for the intermural badminton club from September to January? Was it an increase or decrease?
7. Students sold 400 lanyards at \$10.00 each. They make 2.75% commission on their sales. What is their total commission?
8. You are estimating how many pieces of chocolate are in a jar. Your estimate was 703 chocolates. The actual count was 516. What is the percent of error?

## KEY

1. Brad and his mom went out for lunch and the bill came to \$25.45. His mom wanted to leave an 18% tip. How much tip should they leave and what is the total bill?

$$25.45 \times 0.18 = \$4.58 \text{ is the tip}$$

$$25.45 + 4.58 = \$30.03 \text{ is the total}$$

2. Mike went to the computer store to buy a new tablet. The tablet cost \$299. The sales tax is 8.25%. What will the sales tax be? What will he pay for the tablet?

$$299 \times 0.0825 = \$24.67 \text{ tax}$$

$$299 + 24.67 = \$323.67 \text{ total}$$

3. Mrs. Roberts wants to buy a new TV for the family room. The TV regularly cost \$1299, but is discounted 20%. How much will she save by buying the computer on sale? What will she pay for the computer?

$$1299 \times 0.2 = \$259.80 \text{ savings}$$

$$1299 - 259.80 = \$1039.20 \text{ final cost}$$

4. It cost the shoe factory \$16.25 to make a pair of BlueZoooom running shoes. The mall sells them for \$69.07. What is the percent mark-up?

$$69.07 - 16.25 = 52.82$$

$$52.82 / 16.25 = 325\% \text{ mark-up}$$

5. Carrie earned \$250 over summer vacation. She decided to put it in the bank to earn interest. Her bank has a CD deal and she can earn 1.5% if she leaves the money in the bank for 3 years. At the end of 3 years, how much money will Carrie have?

$$250 \times 0.015 = \$3.75 \text{ earned}$$

$$250 + 3.75 = \text{she will have } \$253.75$$

6. The intermural badminton club started off with 25 teams in September. In January, they had a total of 40 teams. What is the percent of change in the amount of teams for the intermural badminton club from September to January? Was it an increase or decrease?

$$40 - 25 = 15$$

$$15/25 = 60\% \text{ increase}$$

7. Students sold 400 lanyards at \$10.00 each. They make 2.75% commission on their sales. What is their total commission?

$$400 \times 10 = \$4000 \text{ sales} \quad 4000 \times 0.0275 = \$110 \text{ commission.}$$

8. You are estimating how many pieces of chocolate are in a jar. Your estimate was 703 chocolates. The actual count was 516. What is the percent of error?

$$703 - 516 = 187 \quad 187/516 = 36\%$$