WORD PROBLEMS - PERCENTS of NUMBERS

ANSWERS

1. Biff and Sam went out to dinner. Before tax and tip the food cost $56.00. The tax rate is 7.5% and they want to leave a 15% tip. Both amounts are based on the cost of the food. How much will the entire dinner cost?

   7.5% of $56 = .075 x $56 = $4.20 tax
   15% of $56 = .15 x $56 = $8.40 tip
   $56 + $4.20 + $8.40 = **$68.60 total**

2. Lacey runs twelve miles on Monday. Jarred runs the same distance, but separates it out into two days. He runs 40% of the distance on Monday and 60% on Wednesday. How far does he run each day?

   .40 x 12 = **4.8 miles on Monday**
   .60 x 12 = **7.2 miles on Wednesday**

3. Andy and Tom bought a pizza for $13.25 plus tax. If the tax rate is 8%, what is the total price of the pizza?

   8% of $13.25 = .08 x $13.25 = $1.06 tip
   $13.25 + $1.06 = **$14.31 total**

4. Shelza has $20.00 and wants to buy two skirts. The skirts normally cost $13.99 each, but are on sale for 25% off. Does she have enough money to buy both skirts?

   25% of $13.99 is about .25 x $14.00 = $3.50
   $14.00 - $3.50 = $10.50 x 2 = **$21.00**
   so no she will not have enough

5. Bruce can kick a football 35 yards in the air. Vicky can kick one 20% further than him. How far can Vicky kick a football?

   20% of 35 yards = .20 x 35 = 7 yards more
   35 + 7 = 42 yards in the air

6. Barney received an 75% on his English test. If there were 44 questions, how many did he get correct?

   75% of 44 questions = .75 x 44 = **33 correct**

7. Farlow's basketball team plays two games per week. Their season last ten weeks. They need to win 80% of their games to make it to the playoffs. How many games do they need to win?

   2 x 10 = 20 total games.
   80% of 20 games = .80 x 20 = **16 games**

8. It takes Harriet 5 hours to clean the garage. It takes her brother 10% longer to do the same job. How many minutes longer does it take her brother?

   10% of 5 = .10 x 5 = .5 hours
   .5 hours x 60 minutes = **30 minutes** or
     1/2 an hour is 30 minutes