

MATH 0030

In Class

Work 11/17

Name

For problems 1 – 8, translate into a percent equation using a variable of your choice. Then solve each equation.

1. 45 is what percent of 20?

5. What number is $6\frac{1}{2}\%$ of 2168?

2. 52 is 8% of what number?

6. 126 is 84% of what number?

3. Find 10.2% of 35.

7. 1.2 is 8% of what number?

4. 5.8 is what percent of 232?

8. 95 is what percent of 38.

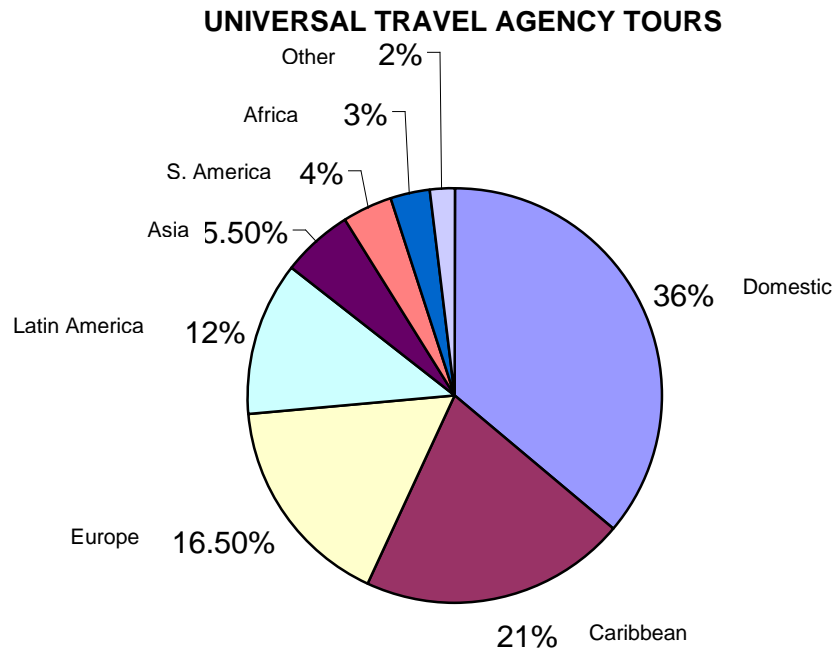
9. Consider the following problem: 9.8% of \$425.

a) There is a way to **estimate** the answer by doing a mental computation (see Percents Handout #1 – Notes). What percent can be used?

b) Use that percent to estimate this value by doing a mental computation.

c) Find the exact value.

10. The circle graph below illustrates the destination of tours that the Universal Travel Agency booked last year. Use this circle graph to answer the following questions:



- a) What was the third most popular destination? _____
- b) Which two destinations accounted for more than half the trips?
There are two possible combinations. Give both.
- c) The agency booked 5,600 trips last year. How many trips to Europe were booked?
- d) The average cost of a trip to Europe was \$2,400. Based on your answer to part c) above, what was the total revenue (money received) from all the trips to Europe?
- e) The average domestic trip value was \$2,300. The average Caribbean trip value was \$4,200. Which generated more revenue for the travel agency: all the Caribbean trips or all the domestic trips? Explain.