

## Mental Math in Percent Problems

1. Find mentally. Find first 10% or 1% of the number to help. Subtraction helps too.

<b>a.</b> 10% of 250 30% of 250	<b>b.</b> 1% of 320 7% of 320	<b>c.</b> 10% of \$11 60% of \$11	<b>d.</b> 1% of \$1,500 6% of \$1,500
<b>e.</b> 25% of \$48 75% of \$48	<b>f.</b> 4% of 90 12% of 90	<b>g.</b> 20% of \$4.50 80% of \$4.50	<b>h.</b> 5% of 62 95% of 62

2. Round the numbers and estimate the percentages.

- a.** 7 people out of the 99 visitors bought a gift.  
→ About \_\_\_\_\_% of the visitors bought a gift.
- b.** 63 out of 241 women preferred store A.  
→ About \_\_\_\_\_% of the women preferred store A.

3. Estimate the success percents by rounding some of the numbers.

Name	Tries	Baskets	Success percent
Jack	26	12	
Dick	31	20	
Dave	19	14	
Matt	49	35	

4. Use your ability to mentally calculate 10% and 1% of number, and your ability to round numbers, and solve these percent problems mentally. In each problem, an approximate answer is enough.

- a.** In group 1, 19 out of 120 mice got the disease, and in group 2, 22 out of 106 mice got the disease. About how many percent of mice got the disease in each group?
- b.** A \$37.90 jacket has a 20% discount. About how much is the discounted price?
- c.** Jack paid 21.5% of his \$1,850 salary as taxes. About how much was left for him?
- d.** The now \$157 house rent will increase by 7%. About how much is the new rent?
- e.** A \$497 laptop has a 15% discount, and a \$455 laptop has a 10% discount. Which is cheaper?
- f.** If you get \$3 off of a \$13 item, and \$7 off of a \$20 item, approximately how much is the percent of each discount?