

Mental Math in Percentage Problems

1. Find the percentages mentally. First find 10% or 1% of the number to help. Subtraction helps too.

a. 10% of 250 30% of 250	b. 1% of 320 7% of 320	c. 10% of \$11 60% of \$11	d. 1% of \$1,500 6% of \$1,500
e. 25% of \$48 75% of \$48	f. 4% of 90 12% of 90	g. 20% of \$4.50 80% of \$4.50	h. 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 percentages of success by rounding some of the numbers.

Name	Tries	Baskets	Percentage of success
Jack	28	12	
Dick	31	20	
Dave	19	14	
Matt	49	35	

4. Use your ability to mentally calculate 10% and 1% of a number, and your ability to round numbers, and solve these percentage 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 108 mice got the disease. About what percentage 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 in taxes. About how much was left for him?

d. Currently, the rent is \$157, but it will soon increase by 7%. About how much is the new rent?

e. A laptop that costs \$497 has a 15% discount, and a laptop that costs \$455 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 what is the percentage of each discount?

