

# ANSWER KEY

Name: \_\_\_\_\_

SHOW WORK ON EVERY QUESTION!!!!

1. A Toy store is having a clearance sale where all items in the store are marked down by 19%. **Estimate** the savings for each item. (Show the work on how you are estimating.)

a. Scooter regularly priced at ~~49.95~~ 50

$$.20 \times 50 = \boxed{\$10.00}$$

b. a doll regularly priced at ~~15.95~~ 16.00

$$.20 \times 16.00 = 16.00$$

$$\approx \boxed{\$3.20}$$

c. A transformer regularly priced at ~~5.99~~ 6.00

$$.20 \times \$6.00$$

$$\approx \boxed{\$1.20}$$

c. A puzzle that is regularly ~~13.85~~ 14.00

$$.20 \times 14.00 = 14.00$$

$$\approx \boxed{\$2.80}$$

2. Estimate the following amounts. (Show the work on how you are estimating.)

a. ~~6%~~ 5% of 200  $\approx 10$

$$.05 \times 200 =$$

b. ~~52%~~ 50% of 600  $\underline{300}$

c. ~~24%~~ 25% of 1000  $\underline{250}$

$$\frac{1}{4} \text{ of } \frac{1000}{250} \text{ is } 250$$

d. ~~11%~~ 10% of 300  $\underline{30}$

$$\frac{1}{10} \text{ of } 300 \text{ is } 30$$

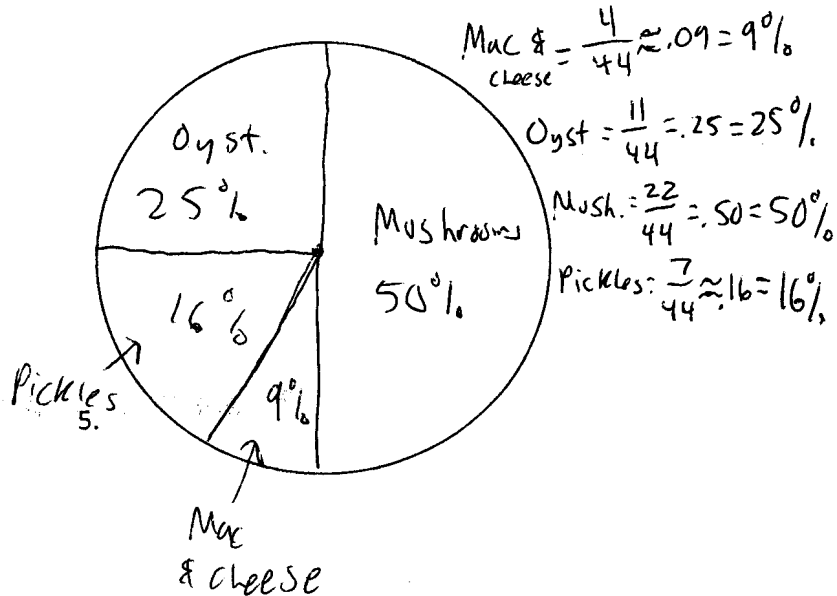
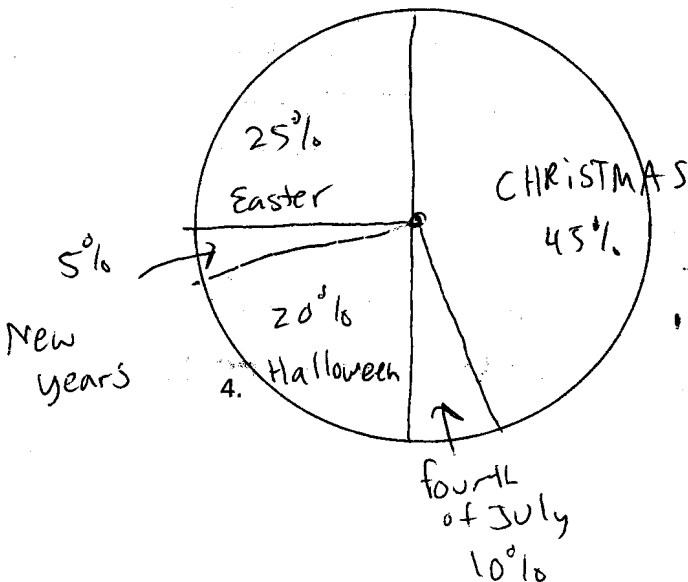
3. Bill wants to leave the waiter a tip. **Estimate** the tip he should leave if the family's bill is ~~40.51~~ 40.00 and the tip he wants to leave is ~~19%~~ 20%.

$$\frac{1}{5} \text{ of } \$40 \text{ is } \$8.00$$

For items 4 and 5, construct a circle graph and display the data.

4. There was a survey conducted showing the favorite holidays of people. 40% said Christmas, 20% said Halloween, 25% said Easter, and 10% said Fourth of July, and 5% said New Years.
5. A survey was conducted during class on what peoples favorite lunch food was. 4 students said mac and cheese, 11 students said oysters, 22 students said mushrooms, and 7 students said pickles. (hint: Find the total number of students surveyed first. Then find the percent for each category.)

44 total surveyed



6. Find the sale price for each item.

a. Regular price \$142.44; discount 45%

$$142.44 \times .45 = 64.098$$

$$142.44 - 64.098 = 78.342$$

$$= \$78.34$$

c. Regular price \$19.95; tax 5%

$$19.95 \times .05 = .9975$$

$$19.95 + .9975 = 20.9475$$

$$= \$20.95$$

b. regular price \$553.34; discount 34%

$$553.34 \times .34 = 188.1356$$

$$553.34 - 188.1356 = 365.2044$$

$$= \$365.20$$

d. regular price \$55.23; Markup 23%

$$55.23 \times .23 = \$12.7029$$

$$55.23 + 12.7029 = 67.9329$$

$$= \$67.93$$

7. Find the amount of this bill if the tip is 15% of the total:

a. Twilight: Mushroom pizza \$15.95, Orange Soda \$1.50, Cheesy bread \$4.95

$$15.95 + 1.50 + 4.95 = \$22.40 \text{ total before tip}$$

$$22.40 \times .15 = 3.36 \text{ tip}$$

$$3.36 + 22.40 = \$25.76$$

b. Beaches: Lobster \$39.99, Flan \$9.95, Crab Dip and Bread \$8.95

$$39.99 + 9.95 + 8.95 = 58.89$$

$$58.89 \times .15 = 8.8335 = \$8.83$$

$$58.89 + 8.83 = \$67.72$$

8. What is the better buy? (You must show your work. No credit for just saying the answer. Tell me the sale price of each one and then say which one is the better deal.

a. Coffee, \$3.99 at 20% off OR coffee, 4.95 at 25% off.

$$3.99 \times .20 = .798$$

$$.798$$

$$3.99 - .798 = 3.192$$

$$= \$3.20$$

$$4.95 \times .25 = 1.2375$$

$$4.95 - 1.2375 = 3.7125$$

$$= \$3.71$$

b. A one-direction CD, \$14.99 at 30% off OR a one-direction CD \$10.00 at 20% off.

$$14.99 \times .3 = 4.497$$

$$14.99 - 4.497 =$$

$$10.493 = \$10.49$$

$$10 \times .20 = 2.00$$

$$10.00 - 2.00 = \$8.00$$