

## NNS Practice Problems

Name \_\_\_\_\_

1. Clarence bought a pair of jeans that were on sale for 25% off, plus an additional 10% off the marked down price. The original price of the jeans was \$40.

What was the final price of the jeans?

- A. \$26
- B. \$27
- C. \$35
- D. \$39

2. The original price of a camera was \$60. It was on sale at a 20% discount. Later, the price of the camera was reduced by an additional 25% of the sale price.

What was the final price of the camera?

- A. \$33
- B. \$36
- C. \$45
- D. \$48

3. The seventh graders set a goal to collect 250 cans for their school's food drive. They collected 275 cans.

What percentage of their goal did they collect?

- A. 75%
- B. 91%
- C. 110%
- D. 125%

4. Shelley divided 2,400 by 3.8 and got an answer of .6315. Which of the following best describes why this answer isn't reasonable?

A. You can't divide a whole number by a decimal and get a decimal number.

B. You should get an answer of about 600, since 2,400 divided by 4 would be 600.

C. You should get an answer of about 60, since 3.8 must be changed to 38 by moving the decimal when the problem is set up.

D. You should get an answer of about .0015, a very small decimal number.

5. In a recent election, about 110 million people cast votes. In this race between two candidates, a particular candidate was elected by a margin of only 2% of the vote. About how many people voted for the winning candidate?

- A. 44 million
- B. 51 million
- C. 54 million
- D. 56 million

6. Solve  $1.44 - 1.151 =$

- A. 1.311
- B. .669
- C. .689
- D. .289

7. Consider this example: A grocer sold 11 grapefruit at a price of \$.39 each and one avocado for one dollar to a single customer. Which of the following math expressions correctly describes the process that could be used for totaling this sale?

- A.  $11 \times .39 = \underline{\hspace{2cm}}$
- B.  $(11 \times .39) + 1 = \underline{\hspace{2cm}}$
- C.  $\$4.29 - 1 = \underline{\hspace{2cm}}$
- D.  $\$.11 + 39 = \underline{\hspace{2cm}}$

8. Three towns in South Lake County voted on building a new soccer complex. The table below shows the number of people that voted in each town and the results.

**South Lake County**

Town	Number of Voters	Yes Votes
Riverton	20,000	3 out of 4
Hot Springs	30,000	80%
Grandville	15,000	$\frac{2}{3}$

Find the total number of Yes votes in South Lake County. Show work or provide an explanation to support your answer.

Answer to #8

9. During a sale the price of all televisions in a store is being reduced by 20%. Abe is interested in a television with an original cost of \$575.

Two weeks later, the sale price of this television is reduced by an additional 5%. Abe thinks he can now get the television for 25% off the original price.

Describe how the sale price with the additional 5% reduction is different than a single reduction of 25%. Use mathematics to justify your answer.

Answer to #9