

Show all work needed to complete the problem.

I. Conversions (3 points each)

A. Convert the following decimals to percents.

1. 0.08

2. 7.2

3. 0.89

B. Convert the following percents to decimals.

1.  $2\frac{1}{8}\%$

2. 7.9%

3.  $\frac{1}{4}\%$

C. Convert the following fractions to percents.

1.  $\frac{1}{8}$

2.  $\frac{18}{25}$

D. Convert the following percents to fractions.

1. 45%

2.  $\frac{4}{3}\%$

II. Answer the following questions. (4 points each)

1. What is 30% of 150?

2. What is 40% of 50?

3. 25% of 200 is what?

4. 12 is 25% of what number?

5. 30 is 50% of what number?

6. 10 is what percent of 5?

7. 15 is what percent of 40?

III. Story problems (7 points each)

1. After the early-bird discount Meijers raised their price of winter coats from \$75 to \$90. What was the percent increase?

2. A building is insured for 80% of its value. If the insurance coverage is \$16,000, what is the value of the building?

3. In Indiana the sales tax rate is 5%. How much sales tax would you have to pay if you bought a coat in Indiana that costs \$79.99?

4. Kenneth's team won 20% more games this year than last year. If they won 15 games last year, how many did they win this year?

5. At the end of Perry Meridian's cross country season the team had won 12 meets and lost 9 meets. What percent of the meets did they win? (Round off at the nearest tenth percent.)

6. A certain calculator costs \$33 after being reduced 20%. What was the original price?