SHOW ALL WORK to receive full credit.

Use the percent Formula $\frac{is}{of} = \frac{\%}{100}$ to solve the following. Round money answers to the nearest cent (hundredth), all others to the nearest tenth. (3 points each)

48 out of 72 is what %

What number is 56% of 360? _____

Solve the following equations. Fraction answers must be reduced to lowest terms, but may be left as either improper fractions or mixed numbers. (5 points each)

-6x + 81 = -9x

4. 2-(5x-4)=3(63x+8)-7x-3

Find the percent of increase or decrease. Round % to the nearest tenth if necessary. (6 points)

5. Mr. Cleaver went to KMart to buy a chainsaw. If the price went from \$140 to \$105, what was the percent increase or decrease?

Increase of Decrease? How Much?

What is the % of increase of decrease?

Reduce the following fractions, and then change the improper fractions to a mixed number. (1 point each)

6. $\frac{27}{5}$ =

7. $\frac{63}{36}$ =

Simplify the following expressions using positive and negative integers. (2 point each)

8.
$$-3 - (-7) =$$

9.
$$6 - (-10) =$$

Multiply or divide the following fractions. Answers must be reduced to lowest terms, but may be left as either improper fractions or mixed numbers. (1 point each)

10.
$$3\frac{5}{6} \cdot 2\frac{1}{4} =$$

11.
$$6\frac{2}{9} \div 7 =$$

Add or subtract the following fractions. Answers must be reduced to lowest terms. Change improper fractions to mixed numbers. (1 point each)

12.
$$8\frac{1}{14} + 5\frac{5}{14} =$$

13.
$$\frac{5}{16} - \frac{1}{4} =$$

14.
$$2\frac{3}{5} - 1\frac{2}{3} =$$

15.
$$2\frac{7}{12} + 1\frac{5}{8} =$$

Change from scientfic notation to standard notation. (4 points each)

16.
$$4.5 \times 10^{-3} =$$

17.
$$3.017 \times 10^6 =$$

Change from standard notation to scientific notation. (4 points each)

SHOW ALL WORK to receive full credit.

Use the percent Formula $\frac{is}{of} = \frac{\%}{100}$ to solve the following. Round money answers to the nearest cent (hundredth), all others to the nearest tenth. (3 points each)

- 90 is 40% of what number? _____
- 2. 30 out of 150 is _____%

Solve the following equations. Fraction answers must be reduced to lowest terms, but may be left as either improper fractions or mixed numbers. (5 points each)

3.
$$5x - 46 = 28x$$

4.
$$-2(5x + 9) + 16 = 6(x - 11) + 2x$$

Find the percent of increase or decrease. Round % to the nearest tenth if necessary. (5 points)

5. Ms. Lauerman went to see a Women's Basketball Game at Stanford University. If the price of the ticket was \$55 last season and this season the price is \$70, what was the percent of the increase or decrease?

Increase of Decrease?_____How Much?____

What is the % of increase of decrease?

Reduce the following fractions, and then change the improper fractions to a mixed number. (1 point each)

6.
$$\frac{33}{6}$$
 =

7.
$$\frac{52}{12}$$
 =

Simplify the following expressions using positive and negative integers. (1 point each)

8.
$$-6 - (-3) =$$

9.
$$4-(-12) =$$

Evaluate the following exponents. (1 point each)

10.
$$5^2 =$$

11.
$$3^3 =$$

12.
$$(-6)^2 =$$

Multiply or divide the following fractions. Answers must be reduced to lowest terms, but may be left as either improper fractions or mixed numbers. (1 points each)

13.
$$\frac{6}{16} \cdot \frac{4}{24} =$$

14.
$$6\frac{2}{4} \div 2\frac{4}{8} =$$

Add or subtract the following fractions. Answers must be reduced to lowest terms. Change improper fractions to mixed numbers. (1 points each)

15.
$$6\frac{2}{12} + 3\frac{8}{12} =$$

16.
$$\frac{8}{9} - \frac{2}{3} =$$

17.
$$4\frac{3}{10} - 1\frac{4}{5} =$$

18.
$$7\frac{2}{15} + 8\frac{9}{10} =$$

Change from scientfic notation to standard notation. (4 points each)

19.
$$9.03 \times 10^7 =$$

20.
$$3.1 \times 10^{-8} =$$

Change from standard notation to scientific notation. (4 points each)