

SHOW ALL WORK to receive full credit.

Use the percent Formula $\frac{\text{is}}{\text{of}} = \frac{\%}{100}$ to solve the following. Round money answers to the nearest cent (hundredth), all others to the nearest tenth. (2 points each)

1. 125 out of 150 is what _____%

2. 37 is 15% of _____

Solve the following equations. Fraction answers must be reduced to lowest terms, but may be left as either improper fractions or mixed numbers. (4 points each)

3. $-3x + 16 = 12$

4. $\frac{x+11}{-5} = \frac{2x-26}{2}$

Find the percent of increase or decrease. Round % to the nearest tenth if necessary. (4 points)

5. Mrs. Woodruff's class went from 24 students first semester to 27 students second semester. 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 mixed numbers. (1 point each)

6. $\frac{21}{9} =$

7. $\frac{32}{14} =$

Change the following mixed numbers to improper fractions. (1 point each)

8. $8\frac{5}{6} =$

9. $9\frac{3}{7} =$

Multiply or divide the following fractions. Answers must be reduced to lowest terms, but may be left as either improper fractions or mixed numbers. (3 points each)

10. $\frac{12}{20} \cdot \frac{4}{9} =$

11. $1\frac{7}{8} \cdot 1\frac{1}{3} =$

12. $\frac{3}{10} \div 2\frac{1}{4} =$

13. $16 \div \frac{4}{9} =$

Add or subtract the following fractions. Answers must be reduced to lowest terms. Change improper fractions to mixed numbers. (3 points each)

14. $5\frac{3}{8} + \frac{1}{8} =$

15. $8\frac{1}{5} - 3\frac{4}{5} =$

16. $\frac{3}{16} + \frac{7}{8} =$

17. $\frac{2}{15} + \frac{9}{10} =$

18. $\frac{2}{3} - \frac{1}{4} =$

19. $\frac{3}{8} - \frac{1}{12} =$

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Use the percent Formula $\frac{\text{is}}{\text{of}} = \frac{\%}{100}$ to solve the following. Round money answers to the nearest cent (hundredth), all others to the nearest tenth. (2 points each)

1. 36 out of 48 is what _____ %

2. What number is 60% of 240? _____

Solve the following equations. Fraction answers must be reduced to lowest terms, but may be left as either improper fractions or mixed numbers. (4 points each)

3. $-2x + 64 = -6x$

4. $7 - (2x - 4) = 2(6x + 5) - 8x - 3$

Find the percent of increase or decrease. Round % to the nearest tenth if necessary. (4 points)

5. Ms. Barton went to Target after Christmas to buy a bunch of cards for next year. If the price of a box of cards went from \$40 to \$15, 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. $\frac{18}{4} =$

7. $\frac{56}{21} =$

Change the following mixed fractions to improper fractions. (1 point each)

8. $3\frac{2}{7} =$

9. $12\frac{3}{4} =$

Multiply or divide the following fractions. Answers must be reduced to lowest terms. Answers that are improper fractions may be left improper or changed to mixed numbers. (3 points each)

10. $\frac{8}{15} \cdot \frac{5}{12} =$

11. $3\frac{7}{11} \div 8 =$

Add or subtract the following fractions. Answers must be reduced to lowest terms. Change improper fractions to mixed numbers. (3 points each)

12. $2\frac{2}{15} + 4\frac{3}{15} =$

13. $10\frac{5}{8} - 4\frac{3}{8} =$

14. $\frac{1}{12} + \frac{3}{4} =$

15. $\frac{7}{18} - \frac{1}{3} =$

Change from scientific notation to standard notation. (3 points each)

16. $5.6 \times 10^5 =$ _____

17. $3.017 \times 10^{-6} =$ _____

Change from standard notation to scientific notation. (3 points each)

18. $0.0000317 =$ _____

19. $250,000,000 =$ _____

SHOW ALL WORK to receive full credit.

Use the percent Formula $\frac{\text{is}}{\text{of}} = \frac{\%}{100}$ to solve the following. Round money answers to the nearest cent (hundredth), all others to the nearest tenth. (2 points each)

1. 55 out of 64 is what _____%

2. 28% of what number is 133? _____

Solve the following equations. Fraction answers must be reduced to lowest terms, but may be left as either improper fractions or mixed numbers. (4 points each)

3. $5 + 3x - 8 - 6x + 4 = -14$

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

Find the percent of increase or decrease. Round % to the nearest tenth if necessary. (4 points)

5. For the NFC game (49ers v. Falcons), a seat in the upper level usually costs a season ticket holder \$150, on Craigslist that same seat is selling for \$900. 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 mixed numbers. (1 point each)

6. $\frac{26}{8} =$

7. $\frac{56}{32} =$

Change the following mixed numbers to improper fractions. (1 point each)

8. $5\frac{2}{9} =$

9. $15\frac{3}{4} =$

Multiply or divide the following fractions. Answers must be reduced to lowest terms, but may be left as either improper fractions or mixed numbers. (3 points each)

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

11. $7\frac{3}{9} \div 1\frac{5}{6} =$

Add or subtract the following fractions. Answers must be reduced to lowest terms. Change improper fractions to mixed numbers where necessary. (3 points each)

12. $3\frac{11}{12} - 1\frac{3}{12} =$

13. $\frac{7}{8} + \frac{3}{4} =$

14. $5\frac{1}{6} - 2\frac{3}{4} =$

15. $2\frac{3}{4} + 1\frac{7}{10} =$

Change from scientific notation to standard notation. (3 points each)

16. $1.06 \times 10^8 =$ _____

17. $8.15 \times 10^{-4} =$ _____

Change from standard notation to scientific notation. (3 points each)

18. $0.000209 =$ _____

19. $250,000 =$ _____