

Show each step on a separate paper. Carefully number each problem. Write the answer on this sheet.

mean \_\_\_\_\_ 1. Find the mean, median, and mode of the following: 12, 14, 12, 13, 14, 16, 15, 12.

median \_\_\_\_\_ mode \_\_\_\_\_

- \_\_\_\_\_ 2. You want to paint two walls in your bedroom. One wall is  $8\frac{1}{2}$  feet by 12 feet, and the other wall is  $8\frac{1}{2}$  feet by 14 feet. How many square feet of wall do you need to paint?
- \_\_\_\_\_ 3. You go to Walmart and buy a LCD television set for \$855.99. You also buy special cords to hook it up to your stereo system. You pay \$886.63 for everything before taxes. What did the special cords cost?
- \_\_\_\_\_ 4. Subtract  $\frac{1}{4}\%$  of 158 from  $\frac{1}{2}\%$  of 286.
- \_\_\_\_\_ 5. How many feet of fence would you need to buy to fence a regular hexagonal garden that is eight and two-thirds feet on each side? Use fractions.
- \_\_\_\_\_ 6. When a certain man died he willed  $\frac{3}{4}$  of his money to his only child. He gave  $\frac{1}{2}$  of the remaining money to help a local homeless shelter. Now there was \$1,000 left. How much money did the man have before he died?
- \_\_\_\_\_ 7. Your mother gives you five gallons of punch. You sell it for \$0.65 a cup. How much money did you make?
- \_\_\_\_\_ 8. A regular quadrilateral has sides of three and two-thirds foot. What is its perimeter? Solve using fractions. (draw a picture)
- \_\_\_\_\_ 9. You buy a two skirts for 18.95 each and three blouses for 10.49 each. How much would you have to pay the store clerk if the sales tax is  $6\frac{1}{2}\%$ ?
- \_\_\_\_\_ 10. After figuring out your income tax, you find you need to pay 15% of \$6530. How much income tax will you need to pay before April 15?
- \_\_\_\_\_ 11. Alice got 32 points on a 40 point test. What percent did she get correct and what would her grade be? Round to nearest whole percent.
- \_\_\_\_\_ 12. Tom's dad drove 544 miles at 64 mph. How long were you driving?
- \_\_\_\_\_ 13. How much would two and one-third pounds of nails cost at \$3.15 a pound? Use fractions.
- \_\_\_\_\_ 14. A circular garden needs a fence to keep the rabbits out. How much fence is needed if the diameter of the garden is 17 feet? Round to nearest foot.
- \_\_\_\_\_ 15. How many seconds are in one day? Show conversion factor steps.
- \_\_\_\_\_ 16. If a person's heart beats at an average of 65 beats per minute, how many times will it beat in an 80 year life time? Use your calculator for as much of the problem as you can. Then use pencil and paper to finish the problem.