

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

- \_\_\_\_\_ 1. Find  $1/2\%$  of 480.
- \_\_\_\_\_ 2. If the price of carpet is \$2.95 a square foot, how much would it cost to carpet a room that is 11 feet by 15 feet? (draw a picture)
- \_\_\_\_\_ 3. Your bedroom is triangular in shape. You measure the walls and find they are 15 feet, 12 feet, and 13 feet. Your room has two doors that are each  $2\frac{1}{2}$  feet wide. How much base board will you need to put trim around the bottom of each wall? (draw a picture)
- \_\_\_\_\_ 4. About how many one foot square rug tiles will you need to buy to carpet your bedroom (above)? You measure and find that the right angle distance from the 15 foot side to the opposite corner is ten feet. (draw a picture)
- \_\_\_\_\_ 5. How many feet of fence would you need to buy to fence a regular hexagon garden that is six and two-thirds feet on each side? Use fractions.
- a. \_\_\_\_\_ 6. You give two-thirds of your 252 marble collection to a friend. Then you give three-fourths of the remaining marbles to another friend. a. Write a fraction that tells what part of your marble collection you gave away. b. Use multiplication to find how many marbles you gave away. c. Tell how many marbles you still have left.
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- \_\_\_\_\_ 7. A triangle has a base of five and three-fifths inch and a height of two and one-fourth inch. What is the area of the triangle? Solve using fractions.
- \_\_\_\_\_ 8. A regular quadrilateral has sides of five and two-thirds foot. What is its area? Solve using fractions. (draw a picture)
- \_\_\_\_\_ 9. Jay bought 12 baseballs for his team for \$2.99 each. The sales tax was  $4\frac{1}{2}\%$ . How much did he pay?
- \_\_\_\_\_ 10. Jessie got 72% of the 250 points possible in math class. How many points did he get?
- \_\_\_\_\_ 11. Alice got 47 points on a 50 point test. What percent did she get correct and what would her grade be? Round to nearest whole percent.
- \_\_\_\_\_ 12. Tom's dad drove 250 miles in 4 and  $1/4$  hours. How fast was he driving? Do you think the police might have given him a ticket for speeding? Round to nearest whole number.
- \_\_\_\_\_ 13. How much would five and two-thirds pounds of nails cost at \$2.95 a pound? Use fractions.
- \_\_\_\_\_ 14. A circular garden needs a fence to keep the rabbits out. How much fence is needed if the radius of the garden is 15 feet? Round to nearest foot.
- \_\_\_\_\_ 15. How many days are in 17,280 minutes? Show conversion factor steps.