

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

- \_\_\_\_\_ 1. Find 275% of 480.
- \_\_\_\_\_ 2. If the price of carpet is \$5.75 a square foot, how much would it cost to carpet a room that is 12 feet by 14 feet? (draw a picture)
- \_\_\_\_\_ 3. Your bedroom is triangular in shape. You measure the walls and find they are 12 feet, 15 feet, and 13 feet. Your room has two doors that are each 3 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 12 foot side to the opposite corner is twelve and one-half feet. (draw a picture)
- \_\_\_\_\_ 5. How many feet of fence would you need to buy to fence a regular octagonal garden that is four and two-thirds feet on each side? Use fractions.
- a. \_\_\_\_\_ 6. You give one-fourth of your 256 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 one 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 six and two-thirds foot. What is its area? Solve using fractions. (draw a picture)
- \_\_\_\_\_ 9. Jay bought 27 baseballs for his team for \$3.99 each. The sales tax was  $3\frac{1}{2}\%$ . How much did he pay?
- \_\_\_\_\_ 10. Jessie got 96% of the 250 points possible in math class. How many points did he get right?
- \_\_\_\_\_ 11. Alice got 35 points on a 52 point test. What percent did she get correct and what would her grade be? Round to nearest whole percent.
- \_\_\_\_\_ 12. Tom's dad drove 350 miles in 3 and  $\frac{3}{4}$  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 two-thirds pound 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 12 feet? Round to nearest foot.
- \_\_\_\_\_ 15. How many ounces are in three tons? Show conversion factor steps.