6 Family Letter

Dear Parent or Guardian:

Ratios, rates, and proportions help us to make decisions. We can use them to make models of objects and to determine distances on a map. We can also use them to make budget decisions, to determine the better buy at a grocery store, and to calculate sales tax.

In Chapter 6, Ratio, Proportion, and Functions, your child will learn how to express ratios and rates, how to use ratio tables, what proportions are and how to solve them, about sequences and expressions, and about using proportions in equations. Your child will complete a variety of daily classroom assignments and activities and possibly produce a chapter project.

By signing this letter and returning it with your child, you agree to encourage your child by getting involved. Enclosed is an activity you can do with your child that practices how the math we will be learning in Chapter 6 might be tested. You may also wish to log on to **www.msmath1.com** for self-check quizzes and other study help. If you have any questions or comments, feel free to contact me at school.
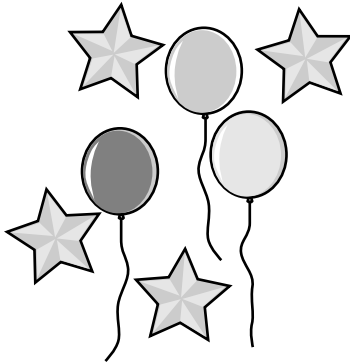
Sincerely,

Signature of Parent or Guardian _____ Date _____

6 Family Activity

State Test Practice

Fold the page along the dashed line. Work each problem on another piece of paper. Then unfold the page to check your work.

1.

What is the ratio of stars to balloons?

    A 3 : 4
    B 4 : 7
    C 4 : 3
    D 7 : 4

2. Kara is practicing her free throw shot. She is averaging 7 shots made out of every 11 attempted. How many shots would you expect her to make if she attempted 55?

    A 21
    B 35
    C 51
    D 42

Fold here. -

Solution

1. *Hint: Ratios are listed in the specified order, for example the ratio of A to B is A:B, not B:A.*

There are 4 stars and 3 balloons. The problem asks for the ratio of stars to balloons, so the number of stars will be first in the ratio, or 4 : 3.

Solution

2. *Hint: She is attempting 5 times as many shots as the total in the provided ratio.*

If she attempted 55 shots, it would be 5 times as many as 11, and since we expect her to make 7 out of 11, we can expect her to make 7×5, or 35 out of 55.

You can also use a ratio.

$$\frac{7}{11} = \frac{?}{55}$$

The denominator is multiplied by 5, so the same will be true of the numerator.

The answer is **C**.

The answer is **B**.