

Photograph Sizes

The Task (7.RP.A.2a)

Photographs come in several standard print sizes. Some of the most common print sizes are 4x6, 5x7, and 8x10. (Note: The dimensions are given in inches.) Does a proportional relationship exist between these print sizes? Justify your answer.

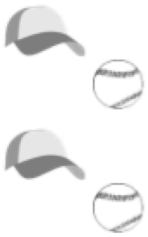


Extensions:

- What photo sizes would be proportional to a 4x6, 5x7, and 8x10?
- Explain what will happen when you take a 4x6 photo and enlarge it to a 8x10.

The Baseball Shop

The Task (8.EE.C.8)

A baseball souvenir shop is offering the following packages for signed baseballs, hats, and bats:

Couple's Package	Autograph Hunter Package	Let's Play Ball Package
\$46.00	\$31.00	\$33.00
		

If the baseball shop sells each item individually, what is the cost of each item?

The Lacrosse Tournament

The Task (F.IF.B.4)

The Parks and Recreation Department is planning a tournament for club lacrosse teams in the area. Sixty-four teams have entered to play. Teams will be placed in a single elimination bracket at random. Four fields are available for tournament use. Games will only be played on Saturdays from 8:00 am until 4:00 pm. Games are 40 minutes in length. Ten minutes is allotted for half time and 10 minutes for teams to warm up. A team can plan only one round each Saturday.

Your job is to report how many fields are being used each Saturday during the tournament. The parks department also needs to know how much available field space they have each weekend for other activities.

Lefties

The Task (S.IC.B.5)

Have you ever wondered what it is like to be left-handed? How to use everyday tools (scissors, pizza cutters, knives, etc.) that are designed for right-handed people? Are lefties more adaptable than righties?

Let's test this question using a more specific statistical question: Are lefties able to write faster with their non-dominant hand than righties?

Design a method for collecting and analyzing sample data for a hypothesis test to determine if the mean left-handed user data is significantly different than the right-handed user data. Then respond to the statistical question.

Your Trip to Paris

The Task (G.C.A.3)

Your parents call you down to the kitchen. You think you are in trouble, but instead they surprise you. Since you have kept your grades up, even earning an "A" in French, you are going on a family vacation to Paris this summer! They haven't finished planning all of the details and would like your help in determining where to stay. They want your hotel to be equidistant from the top three places that you would like to visit.

Use the map and choose three places that you would most like to visit while in Paris. You can choose any three attractions as long as they do not lie along the same line.

Construct where the hotel should be located in order to be equidistant from the places you chose. On loose-leaf paper (or optional stationary), write a note to your parents justifying how you know that you found the right location for the hotel.

Your Map of Paris



Image Source: http://www.parisleftbankapartment.com/?page_id=18