

1-6 B

Problem 2

Library Survey Results

- A. The librarian asks you to analyze the results of her survey of 100 library users. The survey results are shown below. Help the librarian analyze the data by completing the table.

Improvement	Fraction	Decimal	Percent
60 out of 100 requested more books	$\frac{3}{5}$	0.6	60%
30 out of 100 requested more computers for public use	$\frac{3}{10}$		
35 out of 100 requested more up-to-date fiction books		0.35	
47 out of 100 requested a larger building			47%
56 out of 100 requested more up-to-date nonfiction books		0.56	
55 out of 100 requested that the library be open more hours			55%
48 out of 100 requested more books on tape	$\frac{12}{25}$		
5 out of 100 requested more movie titles	$\frac{1}{20}$		
3 out of 100 requested additional branches of the library be opened		0.03	
100 out of 100 requested more CD titles			100%

- B. Form a group with another partner team. Compare your answers in the table. Be sure that if you have any answers on which you do not agree, work together to find out why.





Power Up! Performance Task

Shooting Stars

Aliya, Benito, Cassie, and Dylan participated in a free throw contest. Each participant had to shoot at least ten shots within a certain time period.

The participants filled out their individual performance. The results are shown in the table.

Name	Shots Made	Shots Attempted	Fraction	Decimal	Percent
Aliya	14	20			
Benito		36	$\frac{1}{2}$		
Cassie	18	25			72%
Dylan	9		$\frac{3}{5}$	0.6	

Write your answers on another piece of paper. Show all of your work to receive full credit.

Part A

The paper got wet after the participants filled in the table and some of the numbers cannot be read. Fill in the missing information. Express the fractions in simplest form. Who had the greatest percent of shots made?

Part B

Use a bar diagram to model the scores of each participant. Suppose Marco recorded his scores late and made 15 out of 27 shots. Draw a bar diagram to represent his score. Then order the players from least to greatest score.

Part C

The coach decided to extend the contest another day. Aliya is the only participant to shoot more free throws. How many free throws must she make in a row to have the highest percentage of the four participants? Explain how you know.