

Part 3 Problem Solve with Data

A class made paper airplanes and kept track of how far the paper airplanes flew. Each student performed three trials and recorded the distance in centimeters.

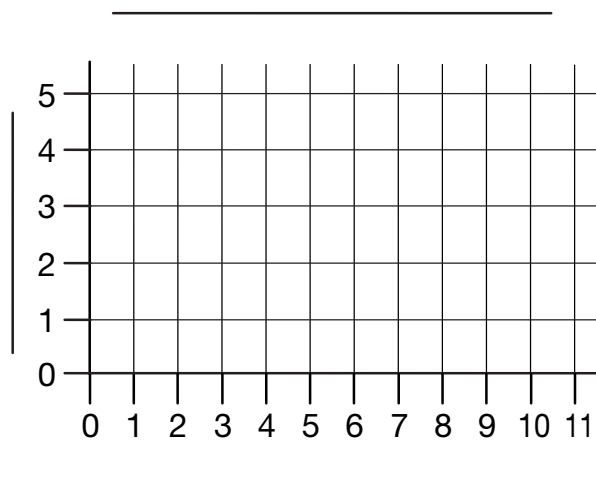
- Write the median distance that each student's airplane flew.

Flight Distance for Paper Airplanes

Student	Trial 1	Trial 2	Trial 3	Median Distance
Irma	13 cm	11 cm	8 cm	
Jacob	11 cm	9 cm	11 cm	
Grace	10 cm	8 cm	9 cm	
Ming	4 cm	3 cm	5 cm	
Romesh	3 cm	5 cm	2 cm	
John	5 cm	4 cm	2 cm	
Keenya	9 cm	8 cm	9 cm	
Kit	5 cm	7 cm	10 cm	

- Make a bar graph of the median distances in trial flights. Remember to label each axis.

Median Distance	Tallies	Number
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		



- Make a paper airplane and fly it three times. Measure the distance the airplane flies each time. What is the median distance in centimeters that your airplane flew? How does your median compare to the class's data?

Part 4 Addition and Subtraction Practice

Use paper and pencil or mental math to solve these problems. Choose an efficient method based on the numbers in the problem. Remember to do a quick estimate and look at your answer to be sure it makes sense. Use the *Addition Strategies Menu* and *Subtraction Strategies Menu* in the *Student Guide Reference* section.

1. A.
$$\begin{array}{r} 203 \\ + 597 \\ \hline \end{array}$$

B.
$$\begin{array}{r} 640 \\ - 235 \\ \hline \end{array}$$

C.
$$\begin{array}{r} 3210 \\ + 2345 \\ \hline \end{array}$$

D.
$$\begin{array}{r} 6753 \\ + 1985 \\ \hline \end{array}$$

E.
$$\begin{array}{r} 7625 \\ - 4434 \\ \hline \end{array}$$

F.
$$\begin{array}{r} 614 \\ 992 \\ + 43 \\ \hline \end{array}$$

2. Explain how you can solve Question 1A using mental math.
3. Show a second method for solving Question 1D.
4. Explain your estimation strategy for Question 1F.