



# Science Toolkit: Grade 8 Objective 1.C.1.a

Student Handout: Science: Grade 8 Objective 1.C.1.a

Standard 1.0 Skills and Processes

Topic C. Communicating Scientific Information

Indicator 1. Develop explanations that explicitly link data from investigations conducted, selected readings and, when appropriate, contributions from historical discoveries.

Objective a. Organize and present data in tables and graphs and identify relationships they reveal.

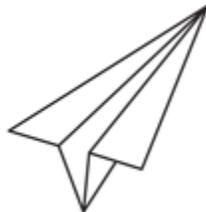
Selected Response (SR) Item

Question

Use the information below to answer the following.

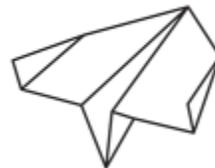
Students investigated how the design of a paper airplane affects the amount of time the airplane stays in the air and the distance the airplane travels. The students tested two airplane designs and kept all other variables constant. The students recorded their data in the tables below.

**AIRPLANE Y**



Long and Narrow

**AIRPLANE Z**



Short and Wide

**DISTANCE AIRPLANES TRAVELED**

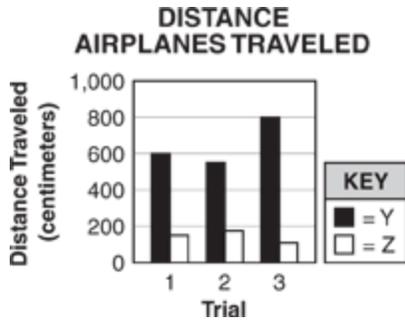
Airplane	Trial 1	Trial 2	Trial 3
Y	600 centimeters	550 centimeters	800 centimeters
Z	150 centimeters	175 centimeters	105 centimeters

**TIME AIRPLANES WERE IN THE AIR**

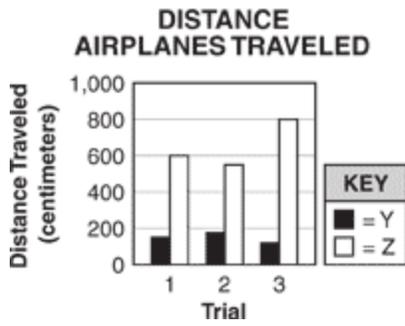
Airplane	Trial 1	Trial 2	Trial 3
Y	3 seconds	2 seconds	4 seconds
Z	2 seconds	7 seconds	6 seconds

Which graph best represents the data for distance traveled?

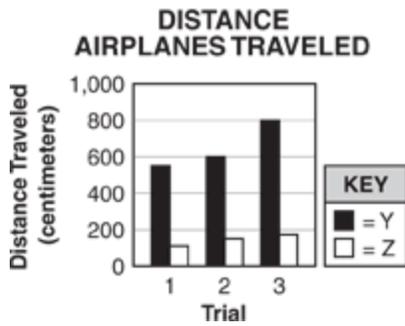
A.



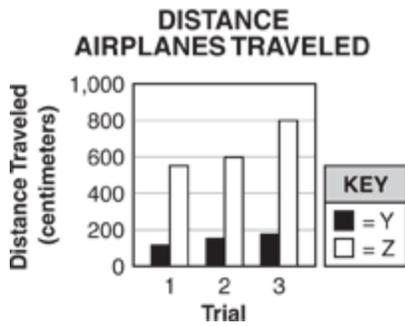
B.



C.

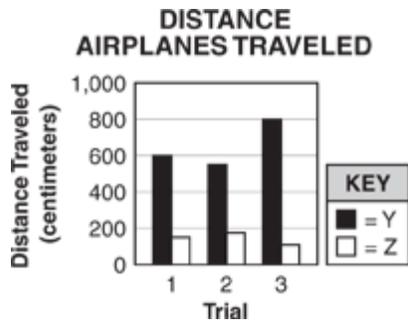


D.



Correct Answer

A.



Question

Use the information below to answer the following.

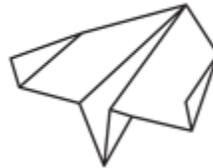
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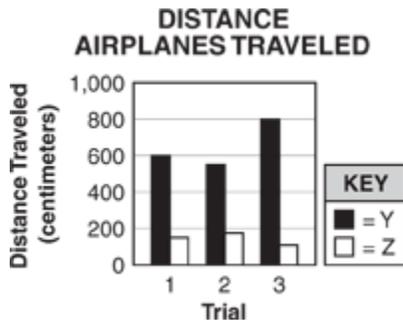
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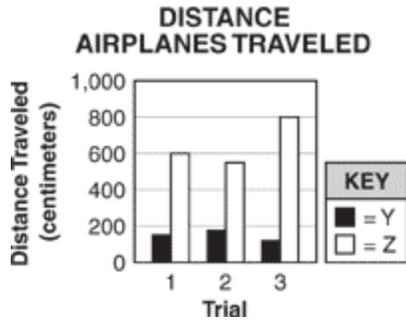
Airplane	Trial 1	Trial 2	Trial 3
Y	3 seconds	2 seconds	4 seconds
Z	2 seconds	7 seconds	6 seconds

Which graph best represents the data for distance traveled?

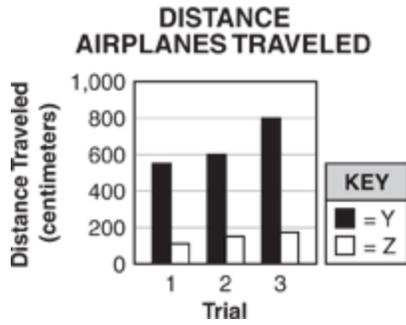
A.



B.



C.



D.

