



Name: _____

Date: _____

School Name: _____

General Instructions:

Read the instructions below before answering the following questions.

1. This test contains 10 questions. Questions are taken from four strands:

- ✓ Number,
- ✓ Measurement,
- ✓ Geometry
- ✓ Statistics & Probability
- ✓ Algebra

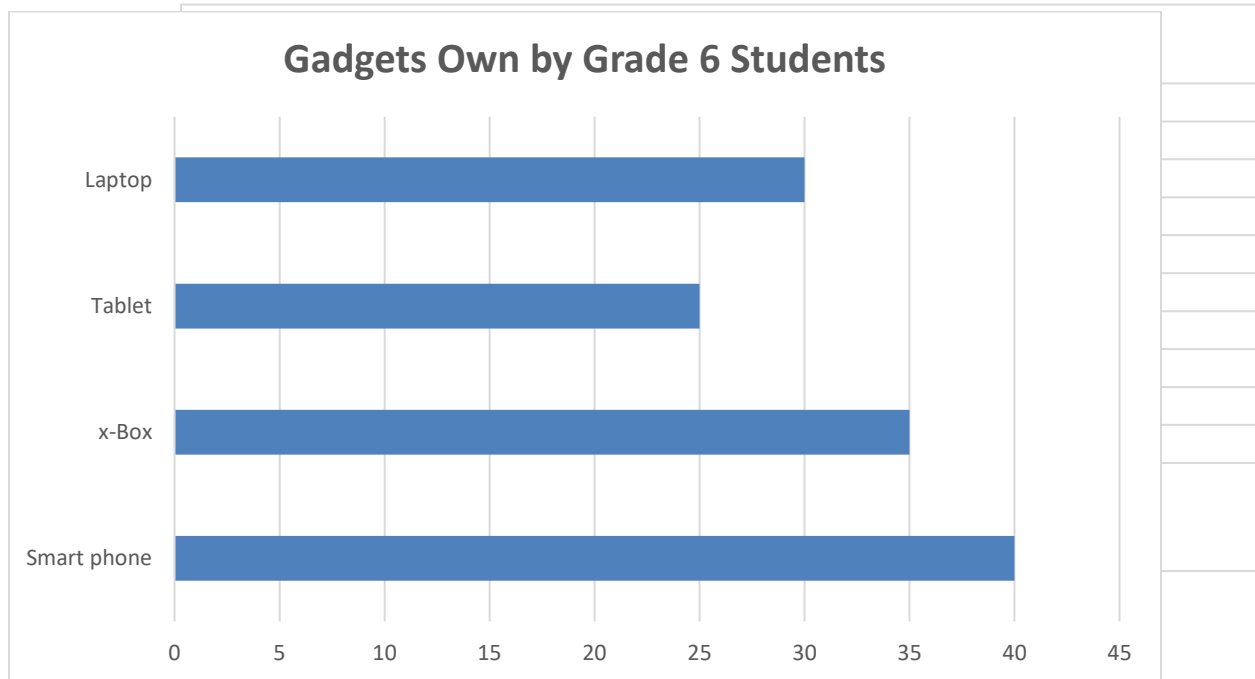
Space is provided for you to answer each question.

2. Questions may be anyone of the following item type: Table Grid, Single/multiple Selected Response, complete work/explanation.
3. All questions must be answered in the provided space and remember to explain your answer where it is required.
4. Read each question carefully. Then answer questions based on instructions given.
5. For each question, where options are given to choose from, indicate the answer(s) you have selected for each question by circling the corresponding letter from the given options.

Answer ALL the questions as instructed.



Use the graph below to answer questions 1 to 4. The bar graph below shows gadgets owned by grade 6 students.



1. Complete the following statements.

More than students own a _____. While _____ less students own X-Box. Give reasons for your answer.

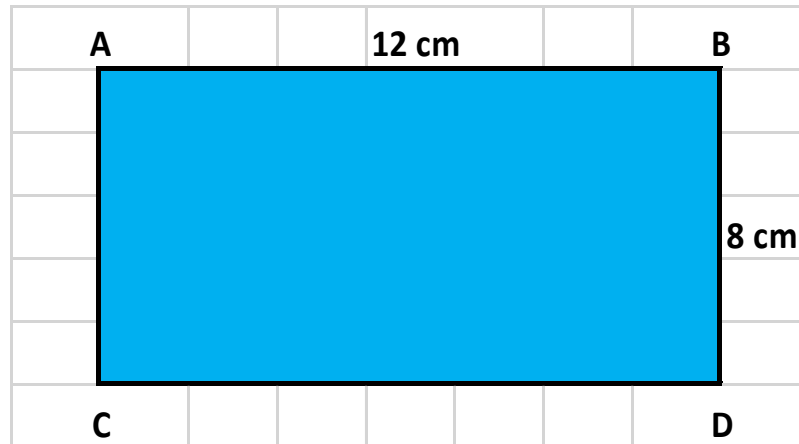
2. All of the students who own tablets also own x-box. Approximately how many students own x-box only?
- A. 10
 - B. 25
 - C. 35
 - D. 60



3. Which gadgets is owned by the third highest number of students?
 - A. Laptop
 - B. Tablet
 - C. X-box
 - D. Smart phone
4. How many total responses were recorded in the survey?
 - A. 40
 - B. 50
 - C. 90
 - D. 130
5. Give an example of a prime number and an example of a composite number. Use words and drawings to explain how to tell the difference between a prime number and a composite number.

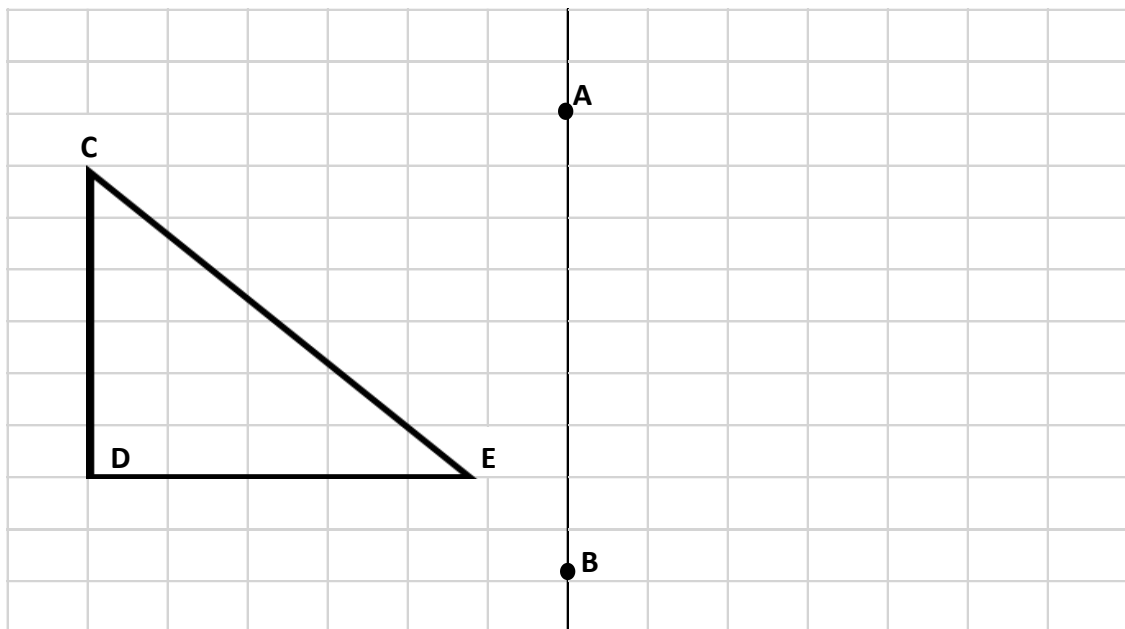


6. What will happen to the rectangle below if it is re-drawn so that its area remains the same, but its perimeter increases?



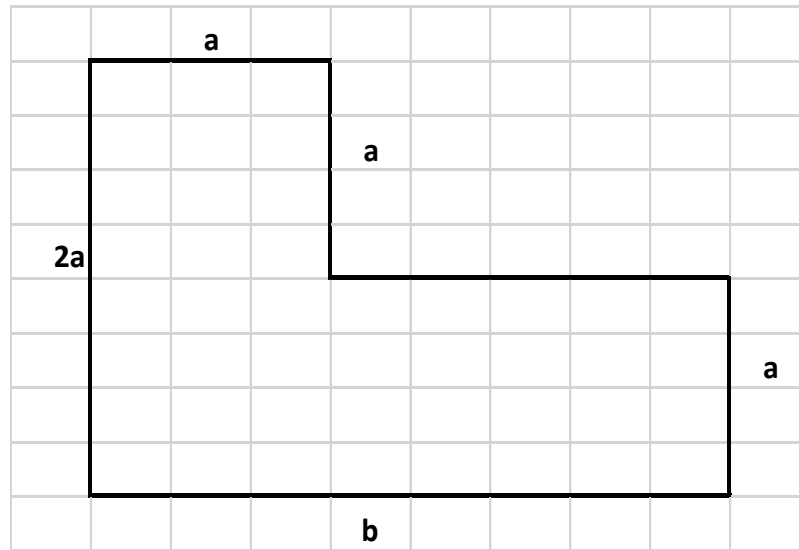
Choose the two correct responses.

- A. It becomes shorter along AB.
 - B. It becomes longer along DC.
 - C. It becomes shorter along BC.
 - D. None of the above.
7. Using AB as the line of reflection, show the image of triangle CDE.





8. Use the rectangle below to answer the following questions:



A. Write an algebraic expression in terms of 'a' and 'b' to represent the area of the shape.

B. Write an algebraic expression in terms of 'a' and 'b' to represent the perimeter of the shape.



C. If $a = 2$ cm and $b = 6$ cm, determine the area of the shape.

A large, empty rectangular box with a black border, intended for the student to show their work for calculating the area.

D. Use the information in C above to find the perimeter of the shape.

A large, empty rectangular box with a black border, intended for the student to show their work for calculating the perimeter.

9. Hanna bought lunch for her friends. She bought five orange juices and five shrimp patties. The price of an orange juice is \$120, and the price of a shrimp patty is \$160. How much money did Hanna spend altogether?

A large, empty rectangular box with a black border, intended for the student to show their work for solving the word problem.



10. A water drum of diameter 70 cm and height 120 cm is to be filled with water. If the drum has $\frac{1}{3}$ its capacity, how much more is needed to full this drum?