

Name _____

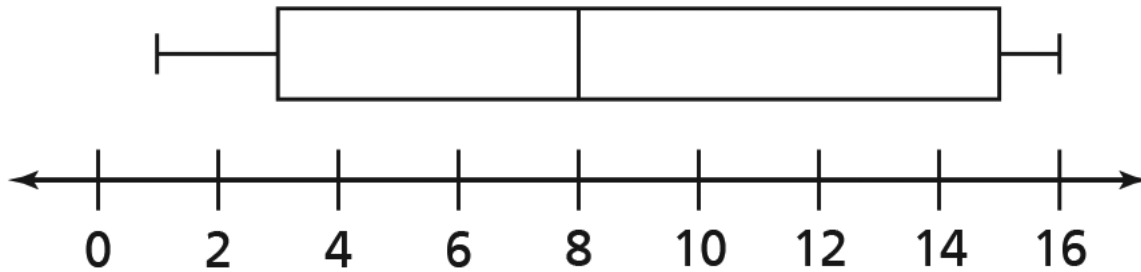
Date _____

6th Grade Benchmark for Topics 7 and 8

Be sure to show all of your thinking, read each question carefully, and provide complete answers. Make sure to answer each questions fully.

Standards: 6.G.A.1, 6.EE.A.2c, 6.G.A.3, 6.G.A.4, 6.EE.B.6, 6.SP.A.1, 6.SP.B.4, 6.SP.A.3, 6.SP.B.5c, 6.SP.A.2, 6.G.A.2

1. Find the following measures of the data set shown in the box plot below. **(6.SP.B.4)**



minimum: _____

maximum: _____

median: _____

first quartile: _____

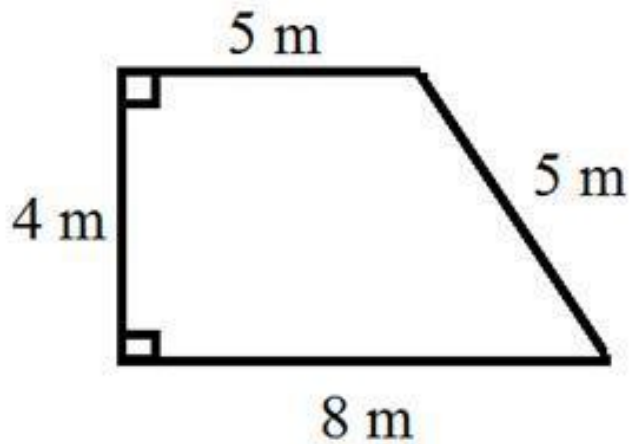
third quartile: _____

interquartile range: _____

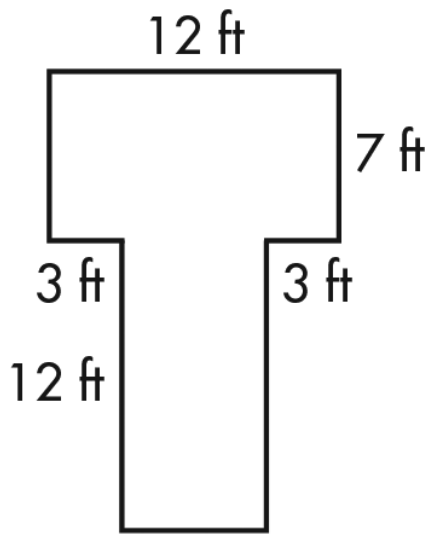
2. Which of the following is a statistical question? **(6.SP.A.1)**

- A. How tall is Mr. Leung?
- B. What are the ages of all your cousins?
- C. What is the formula for the volume of a cube?
- D. What is the school's address?

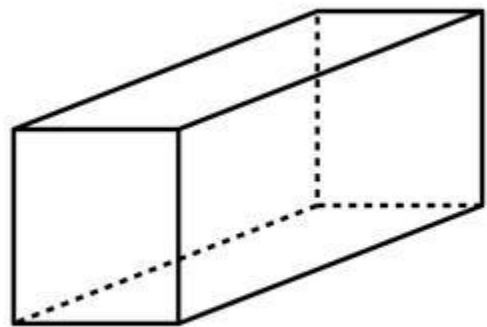
3. What is the area of this trapezoid? $A = \frac{1}{2}h(b_1 + b_2)$ **(6.G.A.1)**



4. Find the area of the composite shape shown below. **(6.G.A.1)**



5. What is the volume of a rectangular prism with $l = 4\text{ cm}$, $w = 3\text{ cm}$, and $h = 6\text{ cm}$, in cubic cm? $V = Bh$ **(6.G.A.2)**



6. The number of students in each of the classes that Julia is taking are listed below
Julia's classes: 25, 23, 28, 32, 27 **(6.SP.B.5c)**

Please find the following measures.

Median:

Mean:

MAD:

7. Michael earned the following test scores:

77, 80, 82, 99, 91, 80, 80

Which two measures of center for this data set are the closest in value? **(6.SP.A.3)**

Mean:

Median:

Mode:

Range:

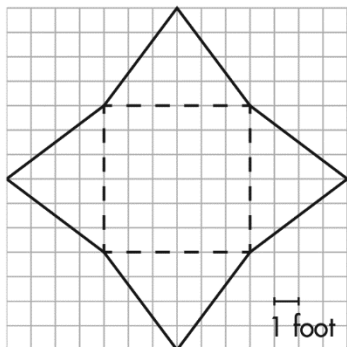
Median and Mode

Mode and Mean

Mean and Median

Mode and Range

8. Logan used the net below to design a nylon tent. **(6.G.A.4)**



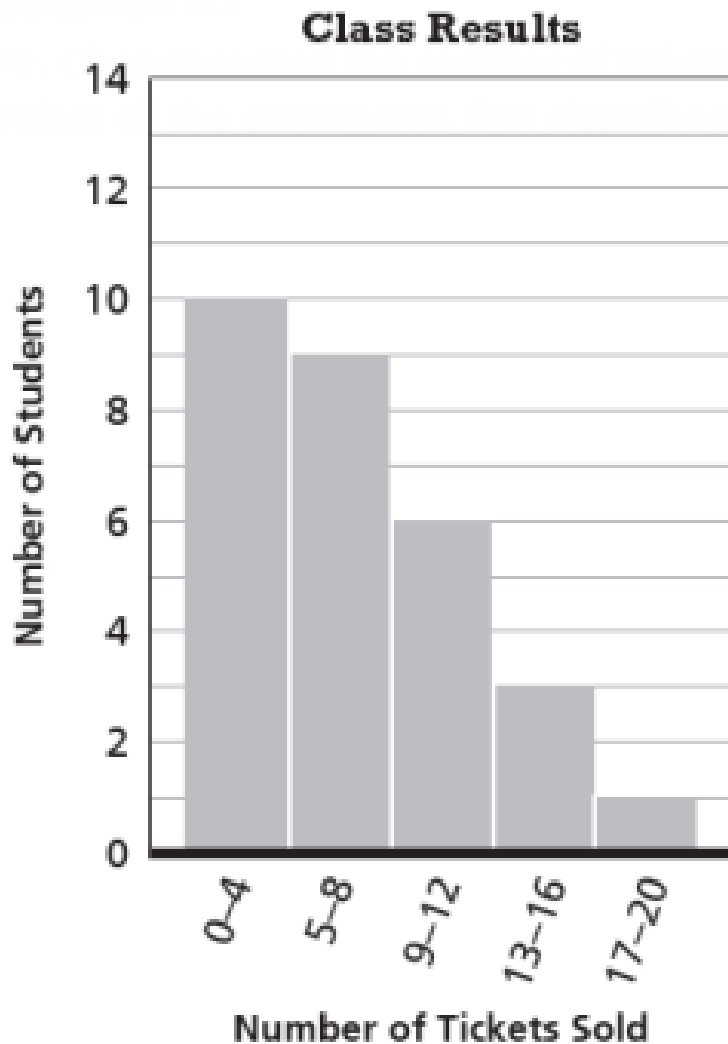
Part A

What shape will the tent have?

Part B

Find the surface area of the shape above.

9. Mr. Chen recorded the number of tickets each student in his class sold for the school musical. Select all the statements that describe the data. **(6.SP.B.5c)**



- More than half the students sold at least 5 tickets.
- The tallest bar represents the most ticket sales.
- 4 students sold at least 13 tickets.
- The graph displays the total number of tickets sold.
- There are 29 students in the class.

10. Classify the following shapes as a prism or a pyramid. (6.G.A.4)

