

Northwest Middle School

Blizzard Bag #2

Name _____

Date _____

6th Grade Math

Mrs. Throckmorton

- * Explain what needs to be done for each problem**
- * Show the work for each problem**
- * Circle your answer for each problem**

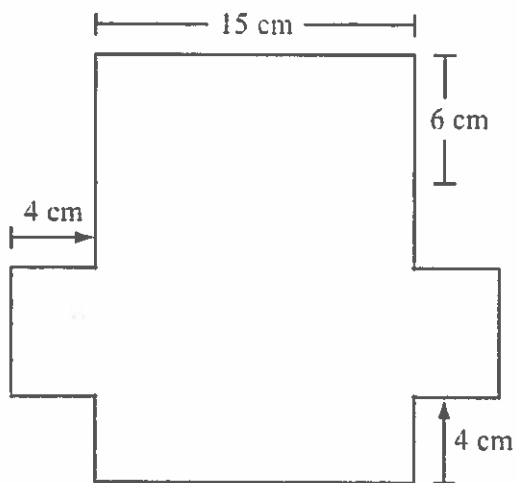
NO CALCULATOR

Mathematics

- 11 Ms. Nelson needs $5\frac{1}{2}$ yards of fabric to make 2 identical dresses. How much fabric is needed to make each dress?

A. $2\frac{3}{4}$ yards
B. $2\frac{7}{8}$ yards
C. 3 yards
D. 11 yards

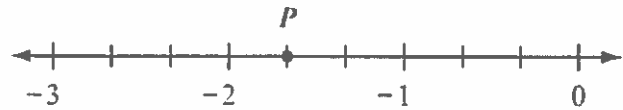
- 12 The net of a rectangular prism and some of its dimensions are shown in the diagram below.



What is the total surface area, in square centimeters, of the rectangular prism?

A. 174
B. 258
C. 348
D. 360

- 13 Which of the following numbers best represents the location of point P on the number line below?



A. $-1\frac{1}{3}$
B. $-1\frac{2}{3}$
C. $-2\frac{1}{3}$
D. $-2\frac{2}{3}$

- 14 Sean's height is 1.8 meters. What is Sean's height in centimeters?

A. 0.018 centimeter
B. 0.18 centimeter
C. 18 centimeters
D. 180 centimeters

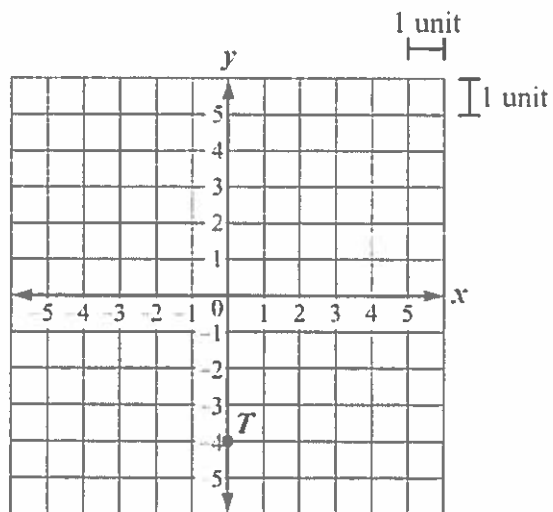
Mathematics

- 15 Mason wrote the expression shown below.

$$5(y + 2)$$

Write an expression that is equivalent to Mason's expression.

- 16 The location of point T is shown on the coordinate grid below.



Point S is located 5 units to the right of point T . What are the coordinates of point S ?

Mathematics

Question 17 is an open-response question.

- **BE SURE TO ANSWER AND LABEL ALL PARTS OF THE QUESTION.**
- **Show all your work (diagrams, tables, or computations).**
- **If you do the work in your head, explain in writing how you did the work.**

- 17** Zoe recorded the number of hours she worked each day for 5 days. Her data set is shown in the box below.

4, 8, 2, 3, 8

- What is the median number of hours Zoe worked for the 5 days? Show or explain how you got your answer.
- What is the mean number of hours Zoe worked for the 5 days? Show or explain how you got your answer.

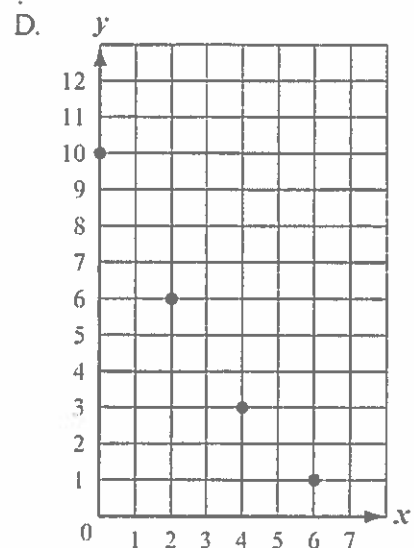
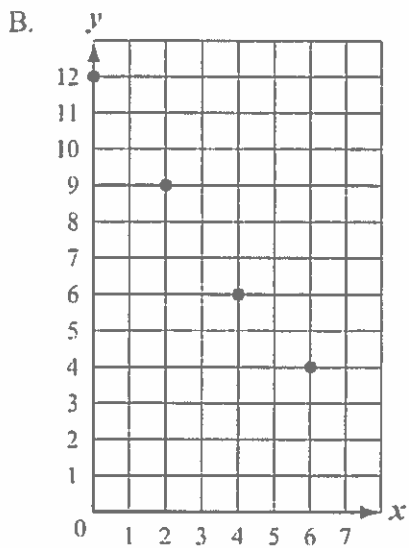
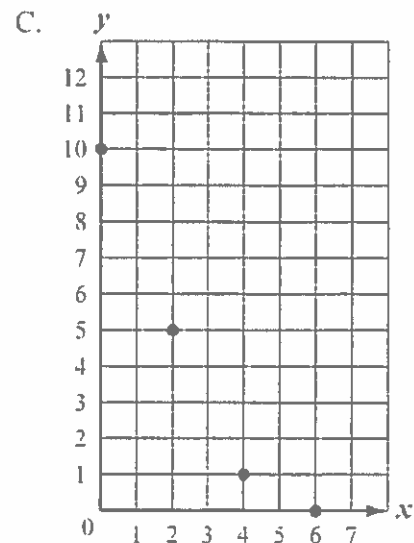
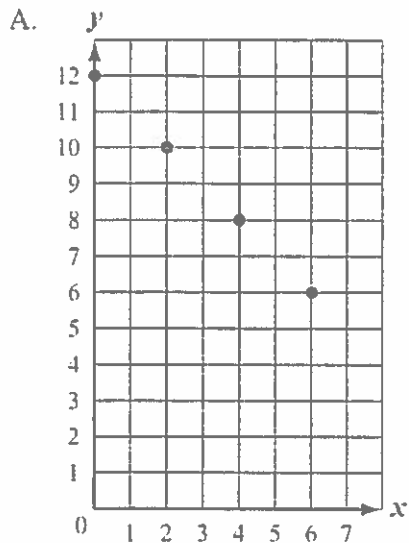
Lance also recorded the number of hours he worked each day for 5 days. His data set is shown in the box below.

2, 2, 3, 5, 8

- Which measure is the same for both Zoe's and Lance's data sets: median, mean, or range? Show or explain how you got your answer.

Mathematics

- 18 Which of the following graphs shows a constant rate of change between the variables x and y ?



Mathematics

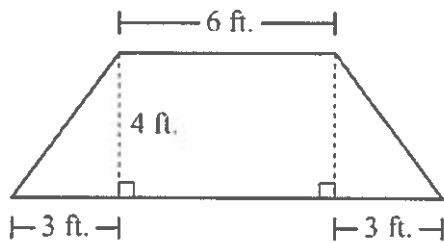
19 Two bands are marching in a parade.

- There are 32 people marching in the first band.
- There are 40 people marching in the second band.
- The same number of people are marching in each row in both bands.

What is the greatest number of people that could be marching in each row?

- A. 2
- B. 4
- C. 8
- D. 10

20 Mr. Walsh has a sign that is in the shape of a trapezoid. Some of the dimensions of Mr. Walsh's sign are shown below.



What is the area of Mr. Walsh's sign?

- A. 24 sq. ft.
- B. 36 sq. ft.
- C. 42 sq. ft.
- D. 48 sq. ft.

21 Which of the following is closest to the circumference, in inches, of a circle with a diameter of 5 inches? (Use 3.14 for π .)

- A. 15.7 inches
- B. 19.6 inches
- C. 31.4 inches
- D. 78.5 inches