

Question 21 is a short-answer question. Write your answer to this question.

- 21 Write a rule that could be used to show the relationship between  $x$  and  $y$  in the table below.

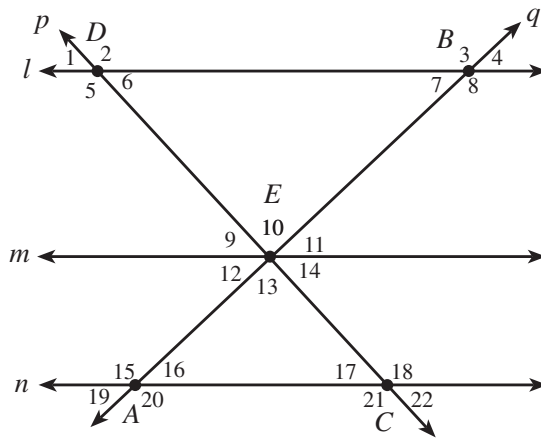
$x$	$y$
-4	16
-1	1
0	0
3	9
7	49

Question 22 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.**

22 In the figure below, the following statements are true.

- Lines  $l$ ,  $m$ , and  $n$  are parallel.
- The perpendicular distance from line  $m$  to line  $n$  is less than the perpendicular distance from line  $m$  to line  $l$ .
- Lines  $m$ ,  $p$ , and  $q$  intersect at point  $E$ .
- Lines  $p$  and  $q$  are perpendicular.
- Angles 6 and 7 are congruent.



- Are triangles  $DEB$  and  $AEC$  similar? Explain your answer.
- Are triangles  $DEB$  and  $AEC$  congruent? Explain your answer.
- List the 8 angles whose measures are equal to that of  $\angle 2$ .
- List all the angles whose measures are equal to that of  $\angle 1$ .

- 23 Which of the following numbers has the same value as the expression below?

$$3(0.25)$$

- A.  $\frac{4}{3}$   
B.  $\frac{3}{4}$   
C.  $\frac{12}{1}$   
D.  $\frac{1}{12}$

- 24 The difference between two temperature readings was 7 degrees. Which of the following could be the two temperature readings?

- A.  $-7^\circ$  and  $1^\circ$   
B.  $-4^\circ$  and  $3^\circ$   
C.  $-1^\circ$  and  $7^\circ$   
D.  $-5^\circ$  and  $12^\circ$