



List the vertex locations of each polygon.

Polygon ABCD						
Α						
В						
С						
D						



What is the dilation factor?

Describe algebraically the rule that was applied to polygon *ABCD* to create polygon *A'B'C'D'*.

(x,y)

Describe the orresponding angles.

The perimeter of polygon *A'B'C'D'* is ______ the perimeter of polygon *ABCD*.

The area of polygon *A'B'C'D'* is ______ the area of polygon *ABCD*.

TEKS 8.3C

2. A linear relationship is represented by the equation $y = \frac{1}{2}x + 4$. Complete the table for this relationship.

	$y = \frac{1}{2}x + 4$									
		Input, x	•	Out	tput <i>, y</i>					
		0				_				
		2								
		4								
		6								
				\cap						
	What is the slope on the of chinge?									
	What is the y-intercept?									
	⊰ `ran	h the positive	- valu	e of ead	h square	TEKS 8.4C				
	he n m	iber line belo	W.	e or cut	Jin Square	1000 011				
		_								
		√64		81	√76					
	< ├──	+ $+$ $+$				$ \rightarrow $				
	7	8	9		10	11				
0										
	What is the positive square root of each, rounded									
	to the n	earest tenth	if nee	ded?						
	• 1	√ <u>64</u> =		_						
	• 1	√81 =		-						
	• 1	√ <u>76</u> =		_						

TEKS 8.2B

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2. Farmer Joe is collecting data on the number

of insects that are found in different test plots

of cotton. Each test plot covers one square

yard. He recorded the number of insects counted on the chart below with each square

1. A 15-foot ladder leans against the side of a house. The base of the ladder is 5 feet from the base of the house. How far up the side of the house does the ladder reach? (Round to the nearest tenth.)



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- 24. Which of the following is an example of a proportional relationship?
- (A) Every gallon is equivalent to 16 cups. The total number of cups is defined by the equation c = 16q, where c represents the total cups, and q represents the number of gallons.
- (B) The area of a square can be determined using the formula $a = s^2$, where a represents the total area, and *s* represents the side length of the square.
- C Tickets to a concert sell for \$27.50 each. Parking for each vehicle is \$15.00. The total stro attend is defined by the equation c = 27.5t + 15, where c represents the total cos ar $\frac{1}{2}$ *t* represents the number of tickets purchased.
- (D) Ted is a truck driver. He drove 450 miles before noon, and 215 miles af er, inc. The total distance Ted traveled is defined by the equation t = 450 + 215, where t represents the total distance.

TEKS 8.5H

25. Which of the following could be side length measurements of pright triangle?

Select TWO correct answers.

- 1, 2.4, 2.6
- 2 12, 16.8, 18.2
- 8, 10, 12.5
- 1.2, 1.6, 2

TEKS 8.7C

26. Fido is a dog The veterinarian put Fido on a diet, and he lost the same amount of weight for three wecks in a rew The table shows Fido's progress.

Choose the correct answer from each drop-down menu to complete the statement.

The <i>y</i> -intercept in this situation is,	Fido	Fido's Progress	
$\Box 22$ $\Box 1.5$	Number of Weeks,	Fido's Weight (lbs	
	X	У	
	0	22	
and represents Fido s	1	21.5	
\square weight loss each week.	2	21	
\square weight gain each week.	3	20.5	
original weight.		TEKS 8	

8.4C

6. Which point on the number line represents the closest approximate value of $\sqrt{153}$?

Select **ONE** location on the number line to plot the point.



TEKS 8.7C