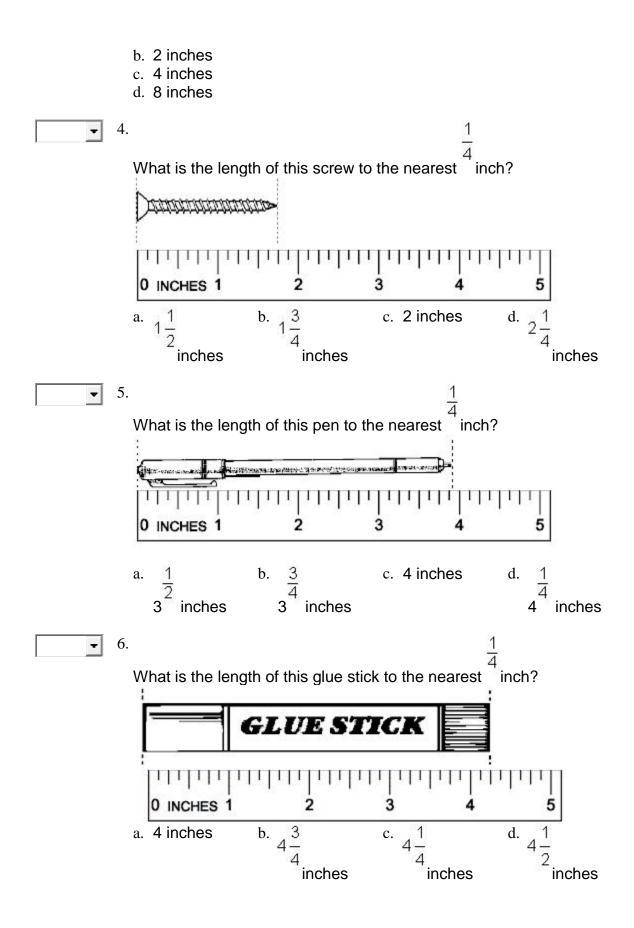
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Measuring Length, Perimeter and Area

Multiple Choice

Identify the	choice that best completes the statement or answers the question.
•	1. What is the best estimate of the length of this nail?
	 a. 3 inches b. 6 inches c. 9 inches d. 12 inches
•	2. What is the best estimate of the width of this bow tie?
	 a. 8 inches b. 4 inches c. 2 inches d. 1 inch
-	3. What is the best estimate of the length of these four thumbtacks?
	a. 1 inch



• 7.	. How many inches are in 1 foot? a. 12 b. 15	c. 24 d. 36
• 8	. Which of these is a reasonable est a. 7 yards b. 7 inches	imate for the height of a door? c. 7 feet d. 7 miles
9	. How many inches are in 3 feet, 4 ir a. 7 b. 22	nches? c. 40 d. 51
• 10	 Tia measured a greeting card and many centimeters are in 1 decimet a. 1 centimeter b. 10 centimeters 	found that it was 1 decimeter long. How er? c. 100 centimeters d. 1,000 centimeters
• 11	. What is the length of the nail to the	nearest centimeter?
	cm 1 2 3 4 5	6 7 8 9 10
	a. 3 centimetersb. 4 centimeters	c. 5 centimetersd. 6 centimeters
• 12	a. meters b. kilometers	re the length of a car? c. centimeters d. decimeters
• 13	. Which of these is the most likely he York City? a. 319 centimeters b. 319 decimeters	eight of the Chrysler Building in New c. 319 meters d. 319 kilometers
• 14	a. kilometers b. meters	re the length of a mountain trail? c. centimeters d. decimeters
• 15	a. millimeters b. centimeters	re the length of an envelope? c. meters d. kilometers
• 16	a. centimeters b. millimeters	re the length of a table? c. meters d. kilometers
- 17	. Alyssa painted a fence that was 84	meters long. She was able to paint 4

meters per hour. How many meters of the fence were left after Alyssa had been painting for 6 hours?

Hours	0	1	2	3	4	5	6
Meters	84	80	76	72			
Left							

a. 68 meters

b. 66 meters

c. 64 meters

d. 60 meters

18. Yoshi lives 12 kilometers from the beach. He decided to walk to the beach. He can walk at an average speed of 2 kilometers per hour. How many kilometers are left in Yoshi's trip after 5 hours?

Hours	0	1	2	3	4	5
Kilometers	12	10	8			
Left						

- a. 2 kilometers
- b. 4 kilometers
- c. 6 kilometers
- d. 8 kilometers
- 19. Lexi had a 42-meter roll of fabric to make costumes for the class play. Each costume uses 3 meters of fabric. After Lexi made 5 costumes, how many meters of fabric were left?

Costumes	0	1	2	3	4	5
Meters	42	39	36	33		
Left						

a. 28 meters

b. 27 meters

c. 26 meters

- d. 25 meters
- 20. Teva jogged to Melissa's house, which is 250 feet away. Teva can jog 4 feet per second. How many feet are left for Teva to jog after 8 seconds?

Seconds	0	1	2	3	4	5	6	7	8
Feet Left	250	246	242	238	234	230			

- a. 224 feet
- b. 222 feet

c. 220 feet

d. 218 feet

- 21. What is the best estimate for the length of your pointer finger?

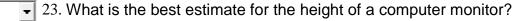
- a. 2 inches
- b. 4 inches
- c. 10 inches
- d. 20 inches

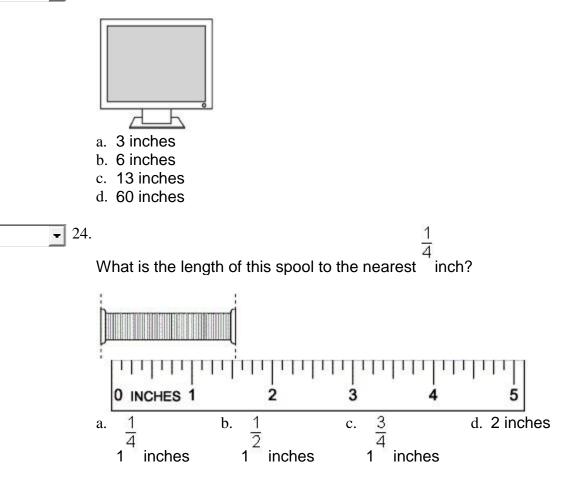
22. What is the best estimate of the length of this bobby pin?





- b. 6 inches
- c. 13 inches
- d. 35 inches





- 25.	<u>1</u>
	What is the length of this pencil to the nearest 2 inch?
	0 INCHES 1 2 3 4 5
	a. 4 inches b. $\frac{1}{2}$ c. $\frac{3}{4}$ d. 5 inches 4 inches
• 26.	What is the length of this carrot to the nearest $\overline{4}$ inch? 4 inch? 4 inch? 4 inch? 4 inch? 4 inch? 111111111111111111111111111111111111
	a. $\frac{1}{4}$ b. $\frac{1}{2}$ c. $\frac{3}{4}$ d. 5 inches 4 inches 4 inches 4 inches
• 27.	Which of these is a reasonable estimate for the height of a can of vegetables?a. 5 milesc. 5 feetb. 5 inchesd. 5 yards
• 28.	How many feet are in 3 yards?a. 6 feetb. 9 feetc. 12 feetd. 36 feet
• 29.	Which of these is a reasonable estimate for the distance between two cities?a. 20 inchesc. 20 yardsb. 20 feetd. 20 miles
• 30.	What is the length of the worm to the nearest centimeter?
	cm 1 2 3 4 5 6 7 8 9 10
	a. 8 centimeters c. 6 centimeters

	b. 7 centimeters		d. 5 centimete	rs
→ 31.	many millimeters		eter?	ntimeter long. How
	a. 1 millimeterb. 10 millimeters		c. 100 millimet d. 1,000 millim	
➡ 32.	Which unit would a. kilometers	be best to mea b. centimeters	asure the length of c. meters	an envelope? d. decimeters
• 33.	Which of these is a. 527 centimete b. 527 decimeter	rs	height of the Sea c. 527 meters d. 527 kilomete	rs Tower in Chicago? ers
➡ 34.	Which unit would a. decimeters	be best to mea b. meters	asure the length of c. kilometers	a house? d. centimeters
• 35.	Which unit would a. kilometers	be best to mea b. meters	asure the length of c. centimeters	an interstate highway? d. decimeters
- 36.	Which unit would a. meters	be best to mea b. decimeters	asure the length of c. kilometers	a soccer field? d. centimeters
• 37.				ribbon for each gift he e roll after Yuji had
	Gifts 0	1 2 3 4	4 5	
	Feet Left48a. 20 feet	44 40 36		
	b. 24 feet			
	c. 28 feet d. 32 feet			
			<i>, ,</i>	
- 38.				y activity. She cut 8 he did she have left to
	cut after 6 second		, i	
	Seconds	0 1	2 3 4	5 6
	Meters Left	100 92	84 76 68	
	a. 42 meters			
	b. 48 meters			

- c. 52 meters
- d. 58 meters

■ 39. Amelia weaves rings from colored thread. She had 96 centimeters of gold

thread. She used 7 centimeters of thread to make each ring. What was the length of the gold thread after Amelia made 7 rings?

Rings	0	1	2	3	4	5	6	7
Centimeters	96	89	82	75	68			
Left								

a. 40 centimeters

b. 47 centimeters

c. 54 centimeters

d. 61 centimeters

40. Evan is using a crayon to color in a section of a mural. The crayon was 70 millimeters long. For each minute he colored, the crayon became 3 millimeters shorter. How many millimeters of the crayon will be left after Evan has colored for 6 minutes?

Minutes	0	1	2	3	4	5	6
Millimeters Left	70	67	64	61			
a 50 millimeters	•						

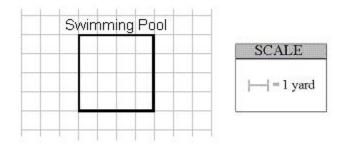
a. 50 millimeters

b. 52 millimetersc. 54 millimeters

d. 56 millimeters

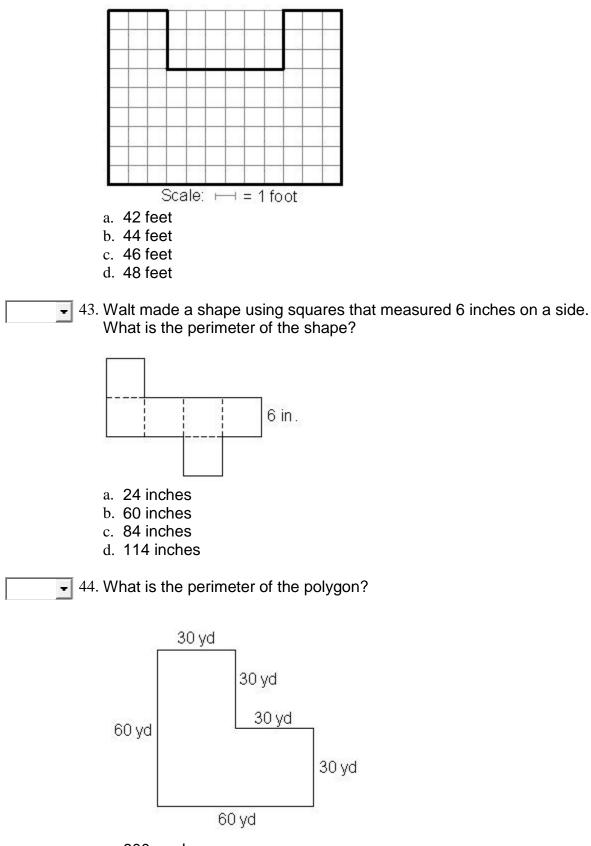
a. 56 minimeters

✓ 41. The size of Benjamin's swimming pool is shown in the drawing below.



What is the pe	erimeter of his swir	nming pool?	
a. 8 yards	b. 12 yards	c. 16 yards	d. 20 yards

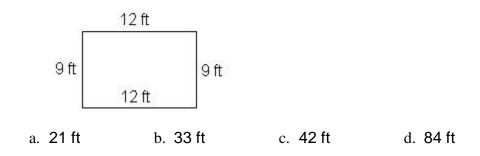
42. This drawing shows the floor plan of Hugo's bedroom. What is the perimeter of his bedroom?



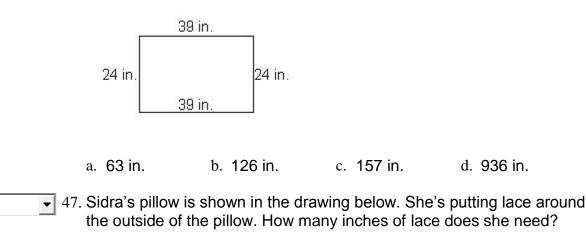
a. 600 yards

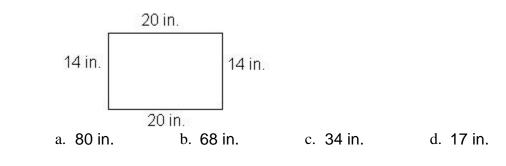
- b. 480 yards
- c. 360 yards
- d. 240 yards

45. Sabrina is putting a wallpaper border around the room shown here. How many feet of wallpaper border does she need?

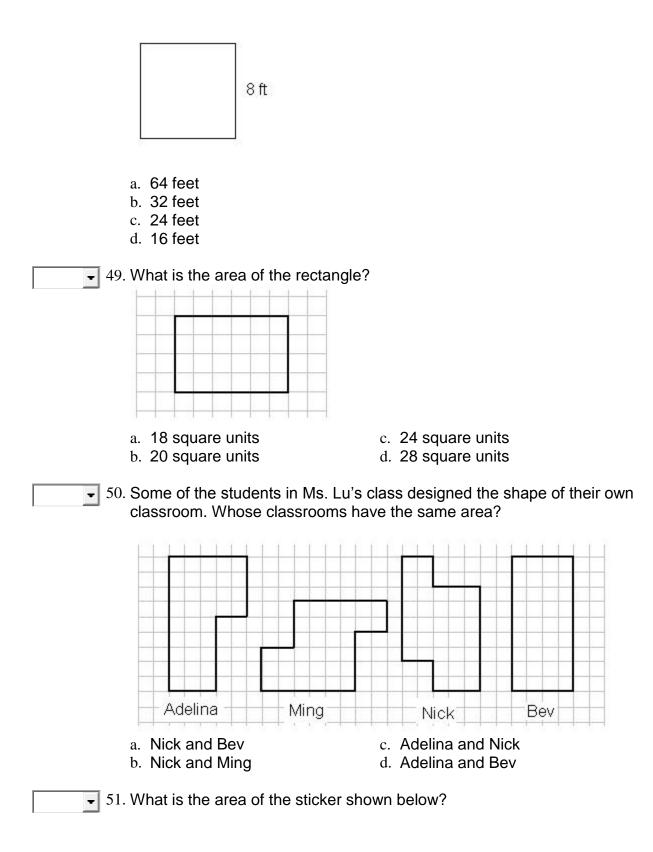


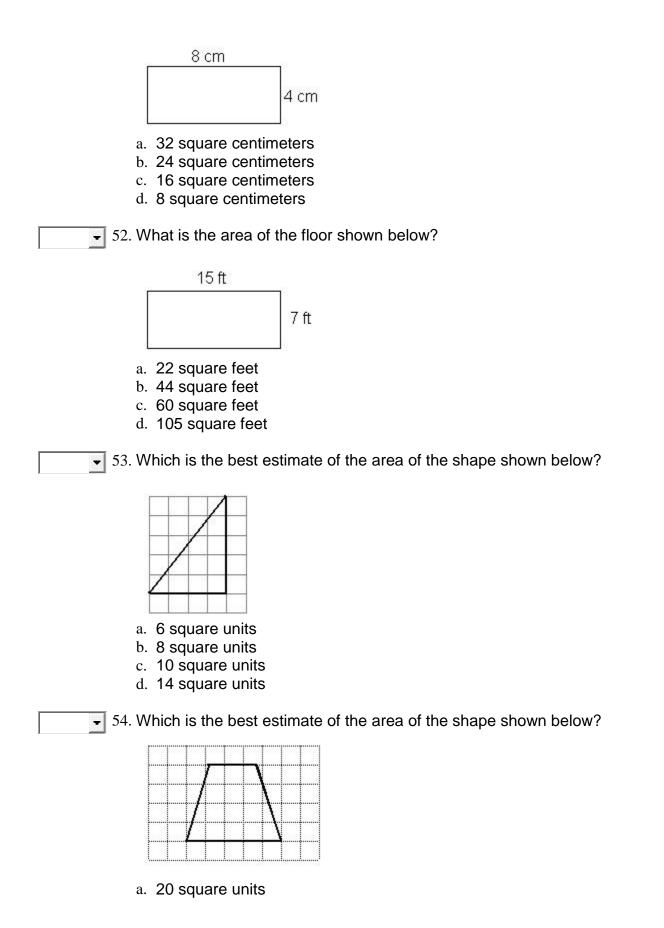
46. Evelyn is putting a border around her Science Fair display board. How many inches of border does she need?



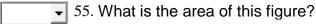


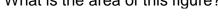
✓ 48. Al makes a flower bed in the shape of a square. What is the perimeter of the flower bed?

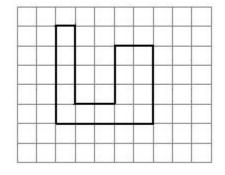




- b. 16 square units
- c. 12 square units
- d. 9 square units







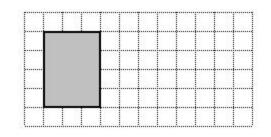
- a. 14 square units
- b. 15 square units
- c. 16 square units
- d. 17 square units

➡ 56. What is the area of this figure?

	_				_
		_	_		
	_				
-		_	+	_	-
	_	-			-
_	_	_	_	_	_
-		-	-	-	-

- a. 12 square units
- b. 14 square units
- c. 16 square units
- d. 18 square units

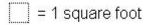
➡ 57. Patrice's backyard is pictured below. The shaded region shows her flower garden. The rest of the yard is grass. How many square yards of her backyard is grass?



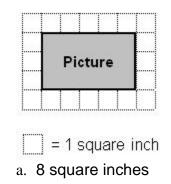
= 1 square yard

- a. 12 square yards
- b. 48 square yards
- c. 60 square yards
- d. 72 square yards
- ✓ 58. Ron made this floor plan of his living room. The shaded regions show where the sofa, coffee table, end table, recliner, and television are. How many square feet of his living room is open space?

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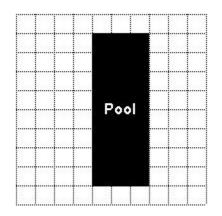


- a. 41 square feet
- b. 48 square feet
- c. 59 square feet
- d. 64 square feet
- ➡ 59. A picture frame is shown below. How many square inches is the open area of the frame?



- b. 12 square inches
- c. 15 square inches
- d. 16 square inches

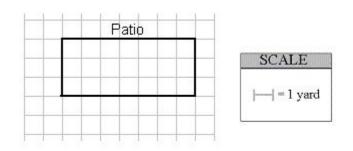
■ 60. A picture of Mariana's deck that is around her pool is shown below. How many square yards does the deck cover?



= 1 square yard

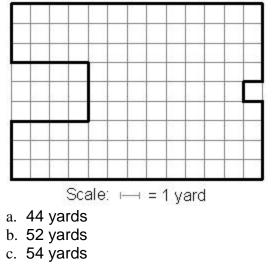
- a. 22 square yards
- b. 24 square yards
- c. 40 square yards
- d. 76 square yards

61. The size of Daniel's patio is shown in the drawing below.

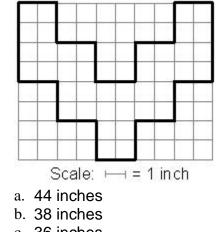


What is the perimeter of his patio?a. 13 yardsb. 17 yardsc. 20 yardsd. 21 yards

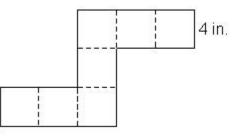
62. This drawing shows the floor plan for the new waiting room in the children's hospital. What is the perimeter of the waiting room?



- d. 56 yards
- 63. Steve is using this figure as a repeating design on a border. What is the perimeter of his design?



- c. 36 inches
- d. 34 inches
- 64. Jake used 7 square floor tiles to make this design. Each square tile measured 4 inches along each side. What was the perimeter of Jake's design?



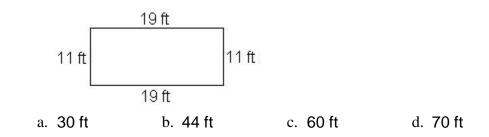
a. 28 inches

- b. 56 inches
- c. 64 inches
- d. 88 inches

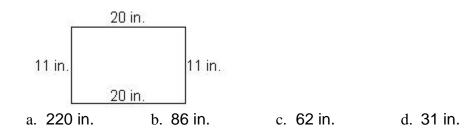
■ 65. Marly's garden is shown in the drawing below. She is putting a plastic border around the garden. How many feet of plastic border does she need?



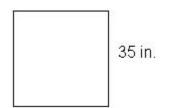
➡ 66. Loretta's room is shown in the drawing below. She walks around the room. How many feet does she walk?



• 67. Russ is building a frame for his art work. How many inches of wood does he need?

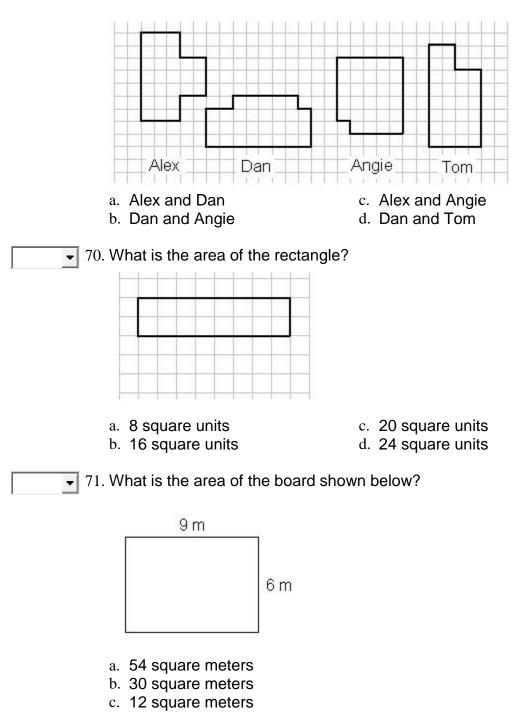


• 68. The corkboard Sharon wants to decorate is in the shape of a square. What is the perimeter of the corkboard?



- a. 210 inches
- b. 140 inches
- c. 105 inches
- d. 70 inches

69. The students in Ms. Amstead's class designed the shape of their own bedrooms. Four students' designs are shown below. Whose bedrooms have the same area?



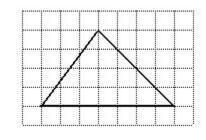
d. 8 square meters

72. What is the area of the fabric shown below?

9 yards	
	9 yards

- a. 81 square yards
- b. 64 square yards
- c. 36 square yards
- d. 18 square yards

73. Which is the best estimate of the area of the shape shown below?



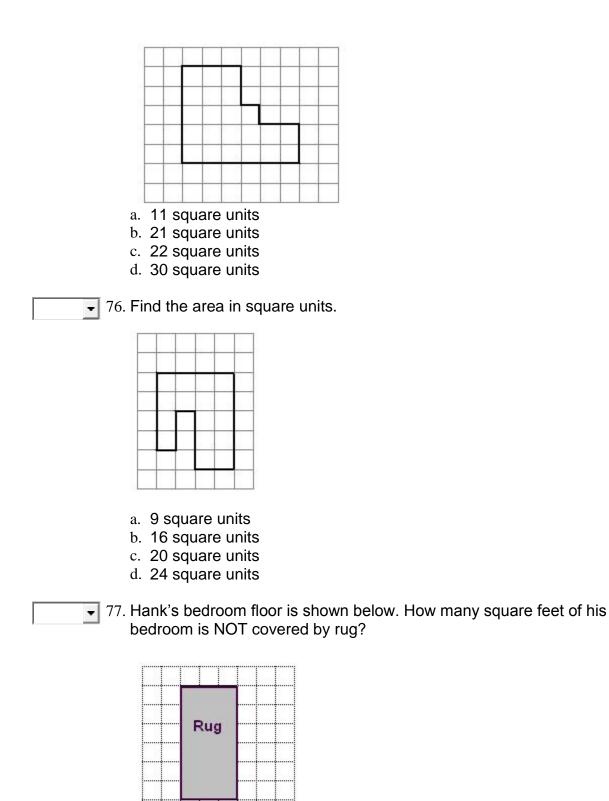
- a. 10 square units
- b. 12 square units
- c. 14 square units
- d. 16 square units

74. What is the area of this figure?

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- a. 12 square units
- b. 10 square units
- c. 8 square units
- d. 6 square units

75. What is the area of this figure?

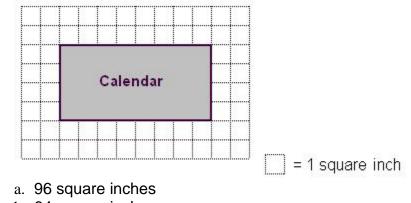


a. 27 square feet

] = 1 square foot

- b. 40 square feet
- c. 46 square feet
- d. 64 square feet

78. Tyrone's corkboard is pictured below. How many square inches of his corkboard is not covered by his calendar?



- b. 64 square inches
- c. 44 square inches
- d. 32 square inches

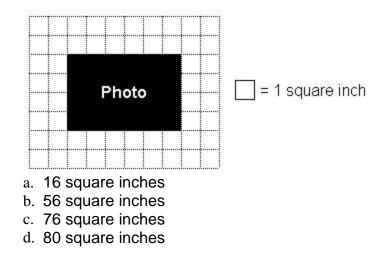
79. Lucia's playground design is shown below. How many square yards of her playground is NOT covered by the sandbox?

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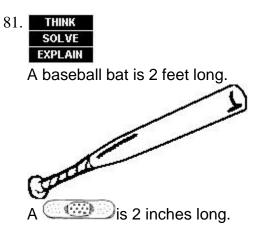
= 1 square yard

- a. 24 square yards
- b. 28 square yards
- c. 30 square yards
- d. 36 square yards

80. A picture of a scrapbook page that Brenda is decorating is shown below. How many square inches can she decorate around the photo?



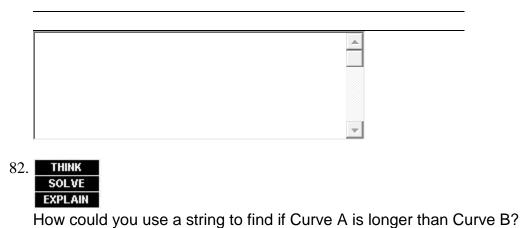
Other

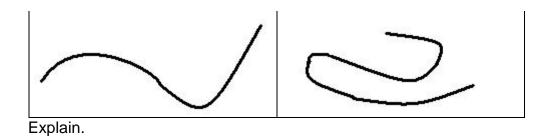


Curve A

Explain which object would be better to use to measure the height of a building.

Curve B







83. THINK SOLVE EXPLAIN

Would you measure the length of a runway in inches or feet?

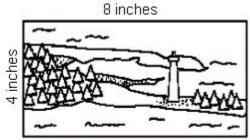


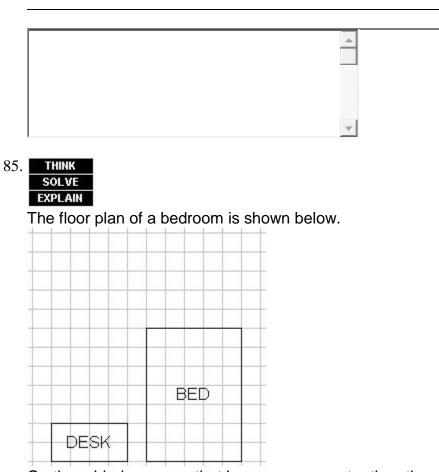
Explain.



84. THINK SOLVE EXPLAIN

Dillon has an envelope that is ABOUT 8 inches long and 6 inches wide. Without measuring, can you tell if the picture shown below will fit in the envelope? Explain.





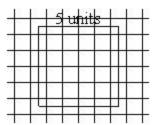
On the grid, draw a rug that has an area greater than the area of the desk but less than the area of the bed.

What is the area of your shape?

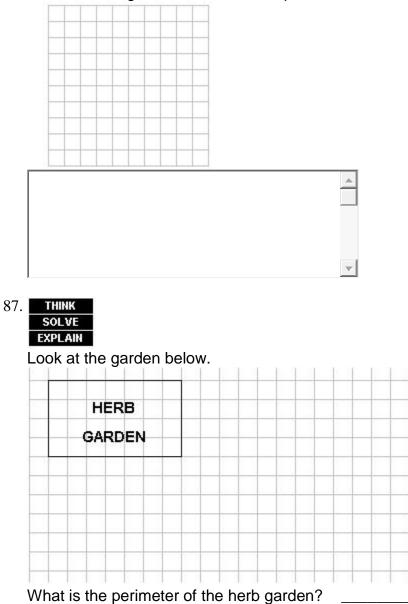


86. THINK SOLVE EXPLAIN

What is the perimeter of the square below? _____ units



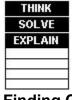
Draw a rectangle that has the same perimeter as the square.



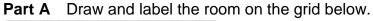
Suppose you want to plant a vegetable garden that has the same perimeter but a different shape. Draw and label the vegetable garden on the grid above.

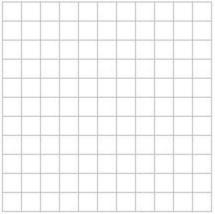


88.



Finding Carpet Area The Smith family is buying carpet for their family room. The room is 9 feet long and 8 feet wide. The family needs to know the area of the room.





Part B What is the area of the room? Explain your answer.

