. 1	Date Class
CHAPTER Section Quiz	
Lessons 9-1 Through 9-3	PLV
Choose the best answer.	o. What is the area of a regular octagon
 What is the height of a triangle whose 	having an apothem of 6 meters and a
base is 9.4 centimeters and whose area	side length of 5 meters? $8 \% = L$
is 132.54 square centimeters? $h = 28.2$	F 15 III (F) 240 M
A 7.05 cm (C)28.2 cm CM	G 120 m ² J 480 m ² $40 \text{ y} 6 = 2$
2.54 = B 14.1 cm D 42.3 cm	9. What is the area of the figure to the
2. The diagonals of a kite are 22 feet and 33	nearest tenth?
feet long. What is its area? $22 \times 33 =$	9 cm A 9 cm 4.5
F 363 ft ² H 756.25 ft ² 303	$ r ^2$ $\langle q \rangle$
G 726 ft ² J 1452 ft ²	√9 81 9 > 01+3-/L
3. A walkway along the diagonal of a square	9 cm 9 81 9 cm 81+3 (L
	A 140.3 cm ² C 175.4 cm ² 92
park is $\frac{7}{5}$ mile long. What is the area of	B 141.8 cm ² (D)86.2 cm ²
the park? $\frac{4}{5}$ $\frac{4}{5}$ = $\frac{0}{25}$	40. What is the area of the shaded assistant
$A \frac{8}{25} \text{ mi}^2 \qquad C \frac{4}{5} \text{ mi}^2$	10. What is the area of the shaded region to
$A \frac{18}{25} \text{ mi}^2 \qquad C \frac{4}{5} \text{ mi}^2$	the nearest tenth of a foot? $2 X 4=29$
B $\frac{16}{25}$ mi ² D $1.6\sqrt{2}$ mi ²	14H (7) 49TU = 40
25 111 11.002 1111	The second of th
4. Bryce has 220 feet of fencing that will	(F)140.1 ft ² H 447.9 ft ² 294
enclose a rectangular corral. One side of	
be the area of the corral?	
F 1488 ft ² (H 2976 ft ²	For Exercises 11 and 12, choose the best estimate for the area of the shaded
	region. $\mathcal{E}(2)$
$(48 = G 2304 \text{ ft}^2 J 8256 \text{ ft}^2)$	11. Side lengths of grid
974 5. What is the circumference of a circle	squares are 1 meter.
whose area is 121π square meters?	
A 5.5 m C 22 m $ 2 \pi = \pi V^2$	101010 200 2 100 10
B 5.5π m (D)22π m $V=11$	
$2\pi V = \lambda(\pi)(1) + 2\pi V$ 6. What is the diameter of a circle whose	$(A)^{27.75} \text{ m}^{2} C \ 35 \text{ m}^{2} 4(1)^{-1}$
$t_{ij} = 2\pi t_{ij}$ continuos is t_{i	B 30.5 m ² D 55.5 m ²
	12 Side lengths of grid
= () 122 cm	12. Side lengths of grid squares are 1 inch.
1.8=10	Shill W
	RAU MILLIAN
whose perimeter is 24 feet?	
$(A)24\sqrt{3} \text{ ft}^2$ C $72\sqrt{3} \text{ ft}^2$	F 25 in ² H 36 in ² 27+3
$\frac{4}{4}$ B $48\sqrt{3}$ ft ² D $96\sqrt{3}$ ft ²	G 29 in ² (J 40 in ² 20
14 /4 5 48V3 11 5 24V3 F+	2
1 4 apothem = 2 \ 3 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
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CHAPTER

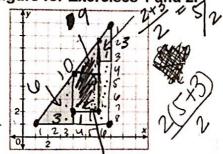
Section Quiz

Lessons 9-4 Through 9-6

Choose the best answer.

Use the figure for Exercises 1 and 2

04+30=X2 100 = X2



1. What is the perimeter of the figure?

A 21 units

C 26 units

B 24 units

D 29 units

2. What is the area of the figure?

F 12 units²

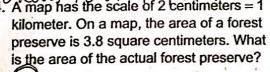
H)17 units² J 24 units²

3. The area of a circle is 96 square inches. What is the area of a circle whose diameter is 1.5 times the diameter of the circle?

A 48 in²

B 64 in²

4.4 Map has the scale of 2 centimeters = 1





F 0.95 km²

H 7.6 km²

G 1.9 km²

J 15.2 km²

5. A pet store runs a monthly magazine ad that is 2 inches wide and 6 inches long and costs \$366. The cost of each ad is based on its area. If the pet store manager decides to triple the width of the ad, how much will the new ad cost?

A \$457.50

C \$1098

B \$549

only one NOWNER

366 X 3=\$1098

6. The perimeter of a rectangle is p units. If its length and width are tripled, what is the perimeter of the new rectangle? No Wilter

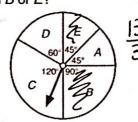
p + 12 units

Hp+6 units When

Bp units

J 9p units

7. What is the probability that the spinne lands on B or E?



0.135

C 0.45

B-0.375

D 0.6

8. A stoplight has the following cycle: green for 90 seconds, yellow for 10 seconds, and red for 60 seconds. What is the probability that the light will be red for a car approaching the stoplight?

140

9. The blue region of the Texas flag is one-third the width, and the red and white stripes are each half the height. What is the probability that a butterfly landing on the flag lands on red?



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Describe the effect of each change on the perimeter or circumference and area of the given figure.

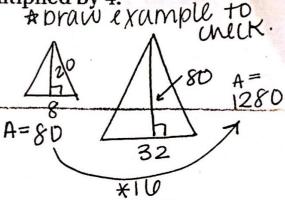
31. The base and height of the triangle with ventices (X(A,A),Y(A,A)) are tripled.

32. The side length of the square with vertices P(-1/1), Q(3,1), B(3,-3) and S(-1/-3) is doubled. Area: $\times 4$ period $\times 2$

33. The radius of $\bigcirc A$ with radius 11 m is called a multiplied by $\frac{1}{2}$. Pln ml+lr: $\times \frac{1}{2}$

34. The base and height of a triangle with base 8 ft and height 20 ft are both multiplied by 4.

Area: XIQ perimeter: X4



34. The base and height of a triangle with base 8 ft and height 20 ft are both multiplied by 4.

multiplied by $\frac{1}{2}$.

33. The radius of OA with radius 11 m is

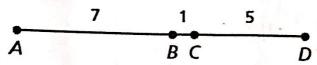
32. The side length of the square with vertices (3.1),

Describe the effect of each change on the perimeter or circumference and area of the given figure.

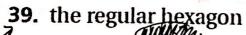
31. The base and height of the triangle with vertices X(-1,3), Y(-3,-2), and Z(2,-2) are tripled.



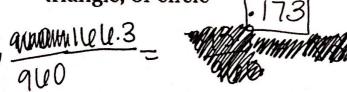
A point is chosen randomly on \overline{AD} . Find the probability of each event.



- 35. The point is on \overline{AB} . $\frac{1}{3}$
- **36.** The point is not on \overline{CD} . 8/13
- 37. The point is on \overline{AB} or \overline{CD} . 12/13 38. The point is on \overline{BC} or \overline{CD} . 4/13
- Find the probability that a point chosen randomly inside the 40 m by 24 m rectangle is in each shape. Round to the nearest hundredth.

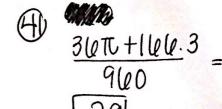


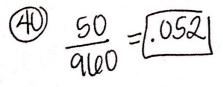
- **40.** the triangle
- **41.** the circle or the triangle
- 42. inside the rectangle but not inside the hexagon, triangle, or circle

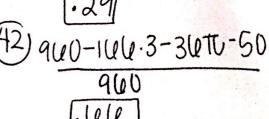




8 m









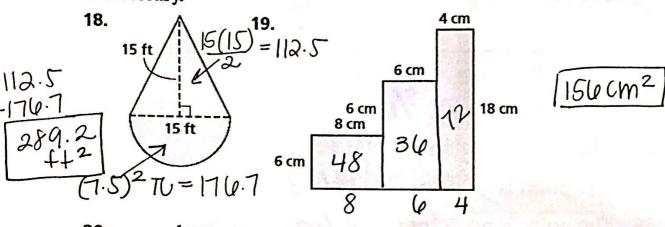
166.3

10 m

8/201 D=8XU=48 a=apornem=4V3

BUTT

Find the shaded area. Round to the nearest tenth, if necessary.

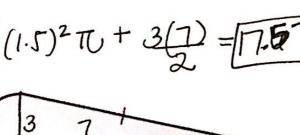


20.
$$\frac{4mm}{2mm} = \frac{2 + 2 + 2mm}{2 + 3} = \frac{4\sqrt{3}(8)}{2} = 27.7$$

8 mm Area of $0 = 4$ To $27.7 - 4$ To $= 16.1 \text{ mm}^2$



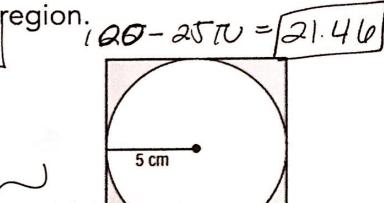
Find the area of the shaded region.





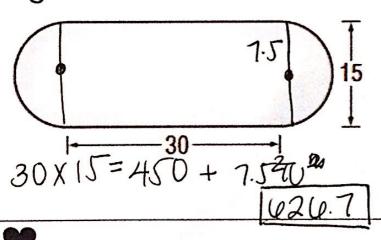
39.03 cm

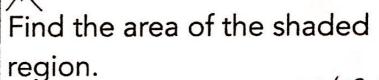
Find the area of the shaded

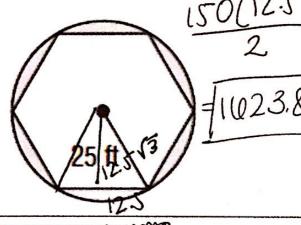




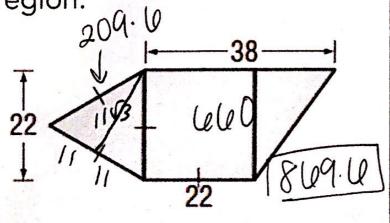
Find the area of the shaded region.





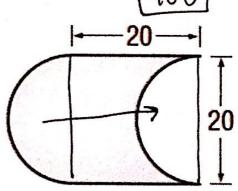


Find the area of the shaded region.





Find the area of the shaded region. (400)



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