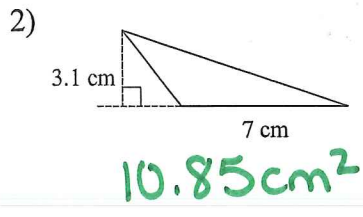
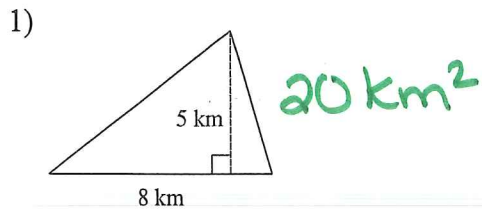
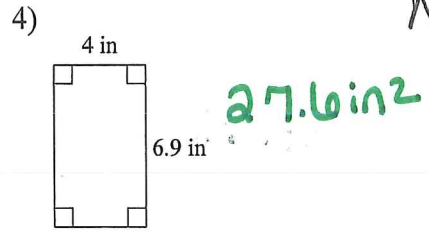
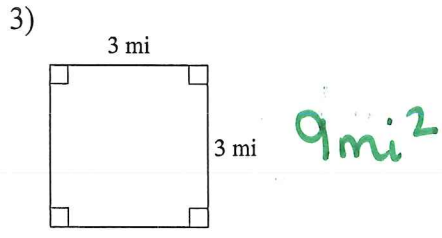


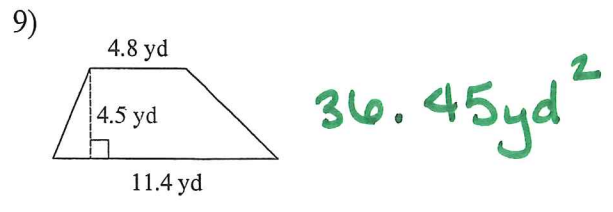
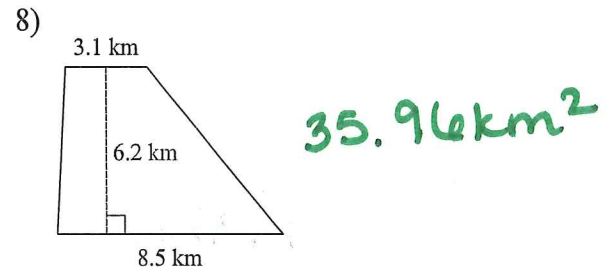
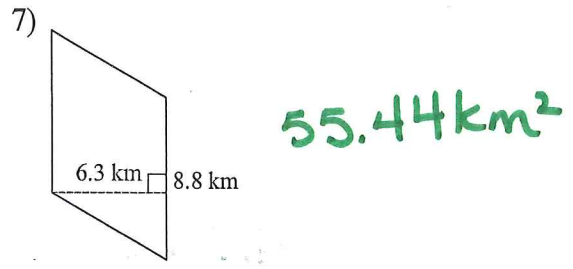
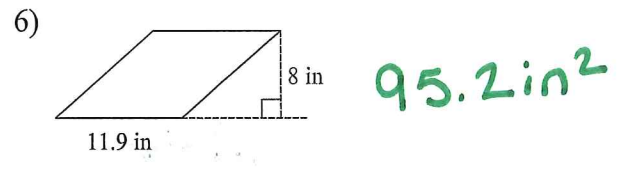
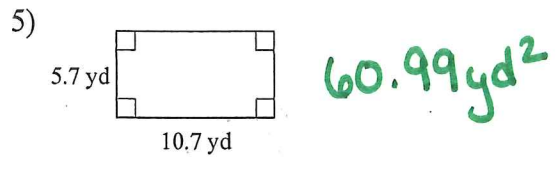
Find the area of each. Show all formulas, work AND circle



Final answers on all questions



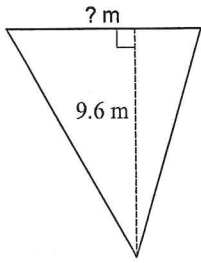
No work/forms will earn you NO credit



I'm Really NOT kidding!
If you don't have work
You will not earn credit.

Find the missing measurement. Round your answer to the nearest tenth.

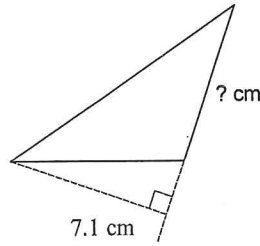
10)



8.3m

Area = 39.8 m²

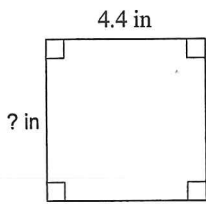
11)



7cm

Area = 24.8 cm²

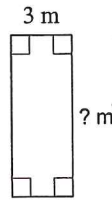
12)



4.4in

Area = 19.4 in²

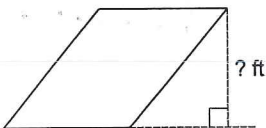
13)



7.9m

Area = 23.7 m²

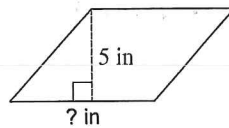
14)



7.1ft

Area = 55.4 ft²

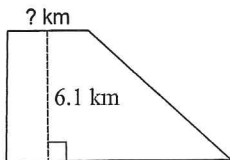
15)



8 in

Area = 40 in²

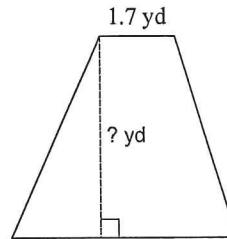
16)



3.9km

Area = 44.5 km²

17)

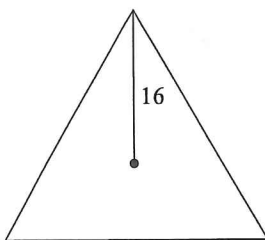


4.5yd

Area = 15.3 yd²

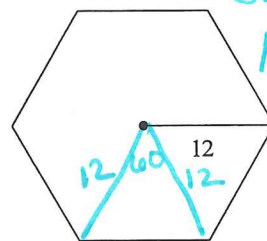
Find the area of each regular polygon. Round your answer to the nearest tenth if necessary.

18)



332.6 units²

19)

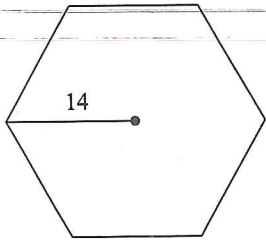


Given Radius

$A = 6 \frac{1}{2} 12 \cdot 12 \sin 60$

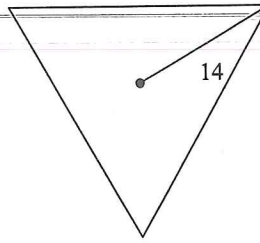
374.1 units²

20)



509.2 units^2

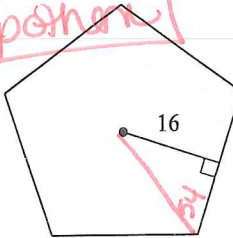
21)



254.6 units^2

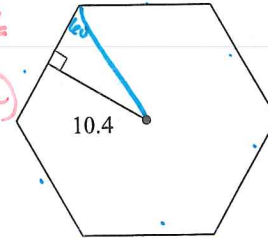
22)

Given apothem



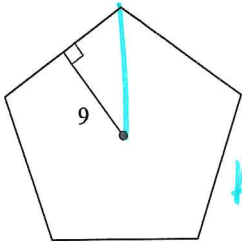
$r = 19.8$
 $A = 5 \frac{1}{2} \cdot 19.8 \cdot 19.8 \sin(72)$
 $A = 932.1 \text{ units}^2$

23)



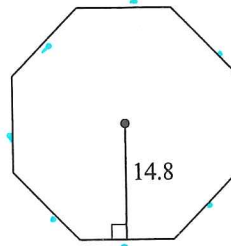
$r = 12.0$
 $A \approx 374.1 \text{ units}^2$

24)



$r = 11.1$
 $A = 292.9 \text{ units}^2$

25)

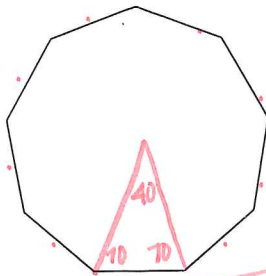


~~$r = 15.1$~~
 $r = 16.1$
 $A = 733.2 \text{ units}^2$

Find the area of each figure. Round your answer to the nearest tenth.

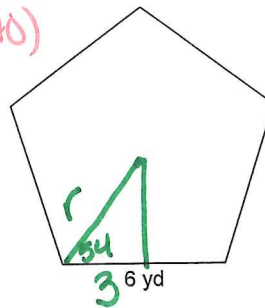
Given Side length

26)



$A = 9 \frac{1}{2} \cdot 10.2 \times 10.2 \sin(40)$
 $A \approx 300.9 \text{ units}^2$

27)



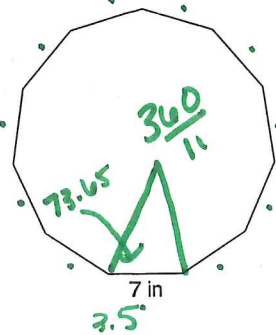
$r = 5.1$
 $A = 61.8 \text{ yd}^2$

$n=9$



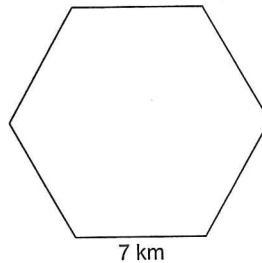
$\cos(70) = \frac{3.5}{r}$
 $r = 10.2$

28)



$\cos(73.65) = \frac{3.5}{r}$
 $r = 12.4$
 $A = 456.87$
 $A = 456.9 \text{ in}^2$

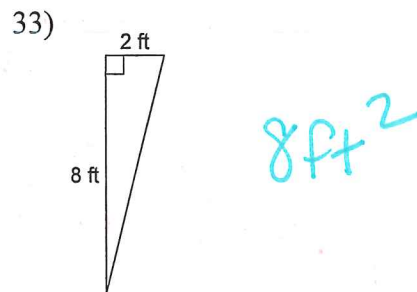
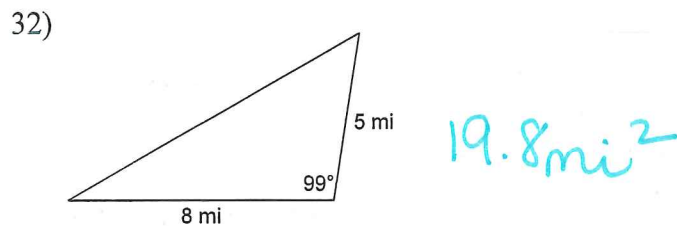
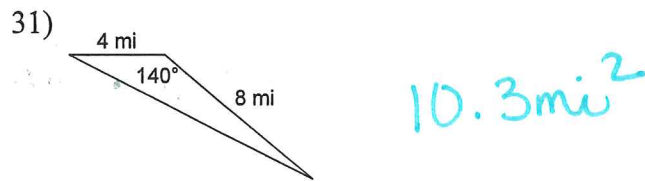
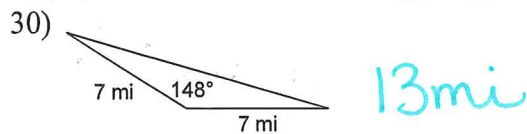
29)



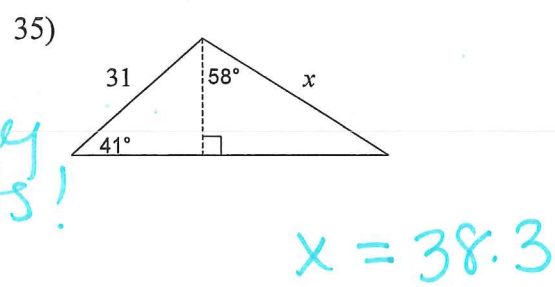
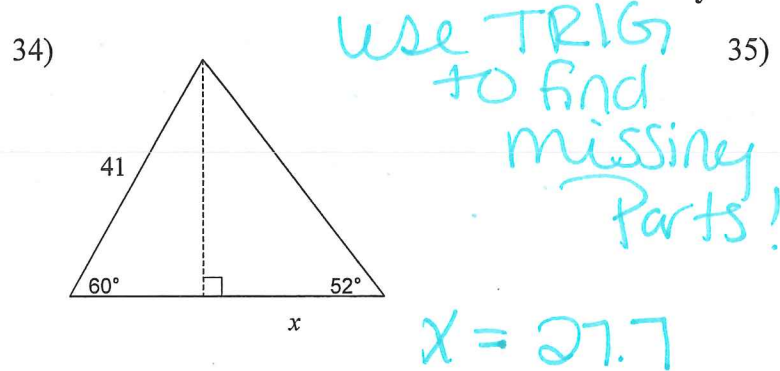
$r = 7$
 $A = 127.3 \text{ km}^2$

Read!

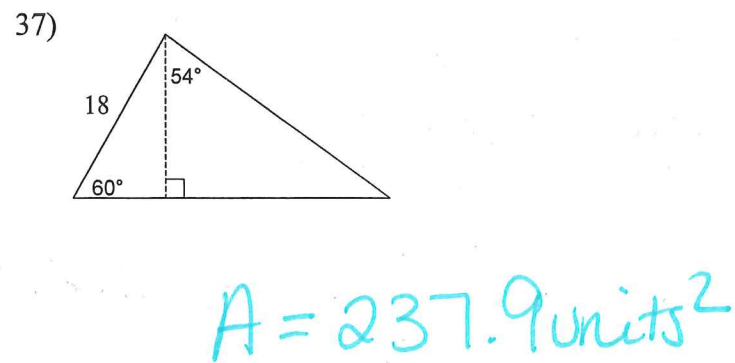
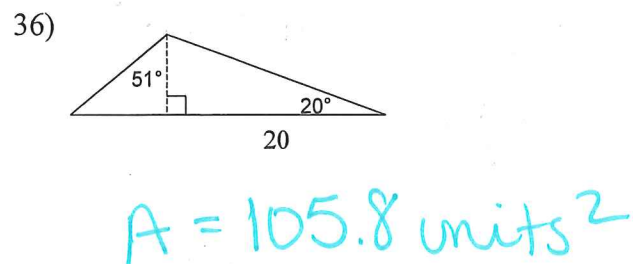
Find the area of each figure. $A = \frac{1}{2}ab\sin C$ Round your answer to the nearest tenth.



Find the length of the side labeled x . Round intermediate values to the nearest tenth. Use the rounded values to calculate the next value. Round your final answer to the nearest tenth.



Find the area of each triangle. Round intermediate values to the nearest tenth. Use the rounded values to calculate the next value. Round your final answer to the nearest tenth.



Coordinate Plane Composites

Multiple Choice

Identify the choice that best completes the statement or answers the question.

NO WORK = NO CREDIT
IF You just have answers You earn a Zero!

- A 1. Given the coordinates of the vertices of a quadrilateral, determine whether it is a *square*, a *rectangle*, or a *parallelogram*. Then find the perimeter of the quadrilateral.

$A(-3, -2)$, $B(2, -2)$, $C(4, 2)$, $D(-1, 2)$

- a. parallelogram; $(10 + 4\sqrt{5})$ units
b. rectangle; $(25 + 2\sqrt{5})$ units
c. square; $(5 + 2\sqrt{5})$ units
d. none of these

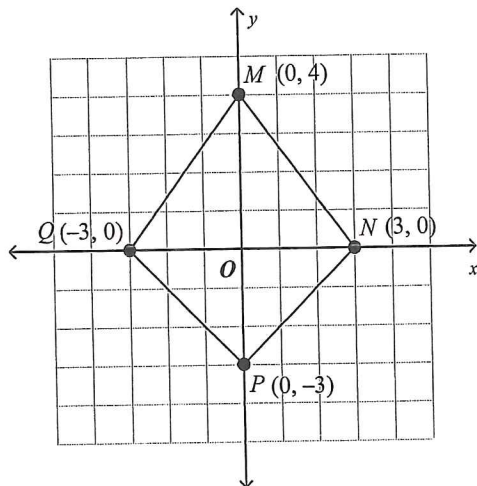
- A 2. Given the coordinates of the vertices of a quadrilateral, determine whether it is a *square*, a *rectangle*, or a *parallelogram*. Then find the area of the quadrilateral.

$A(2, -3)$, $B(7, -3)$, $C(9, 2)$, $D(4, 2)$

- a. parallelogram; 25 units²
b. rectangle; 20 units²
c. square; 10 units²
d. none of these

Find the area of the figure. Round to the nearest tenth if necessary.

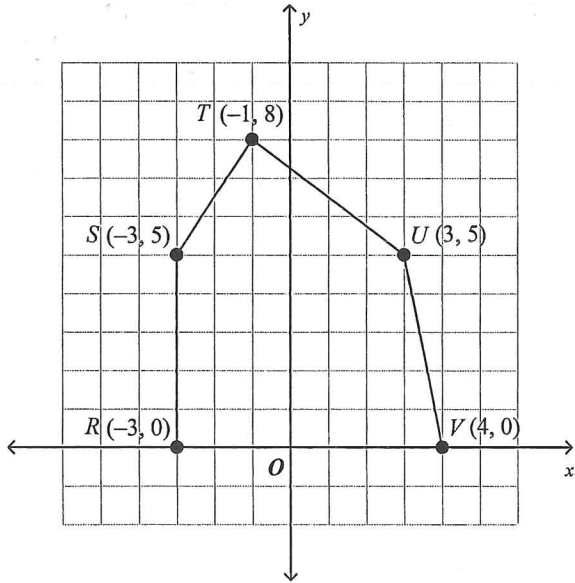
B 3.



- a. 42 units²
b. 21 units²
c. 33 units²
d. 30 units²

A

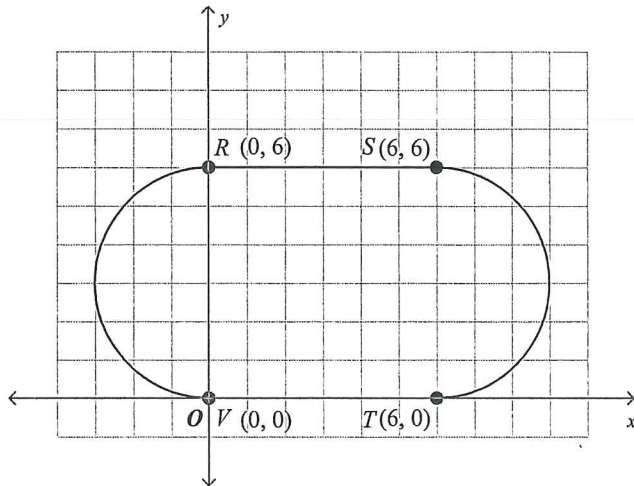
4.



- a. 41.5 units^2 c. 74 units^2
b. 50.5 units^2 d. 56.5 units^2

D

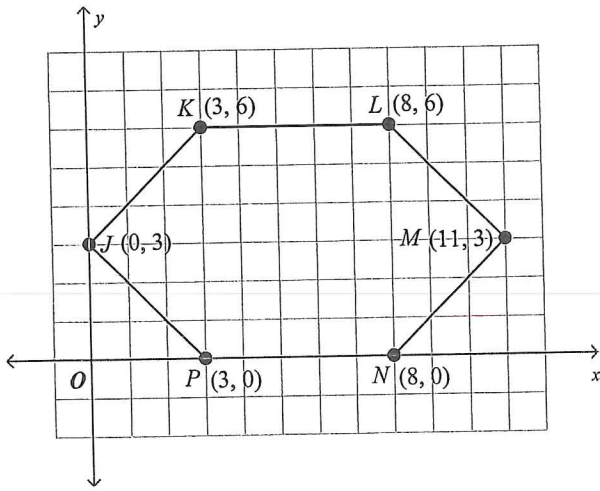
5.



- a. 149.0 units^2 c. 71.7 units^2
b. 58.3 units^2 d. 64.3 units^2

B

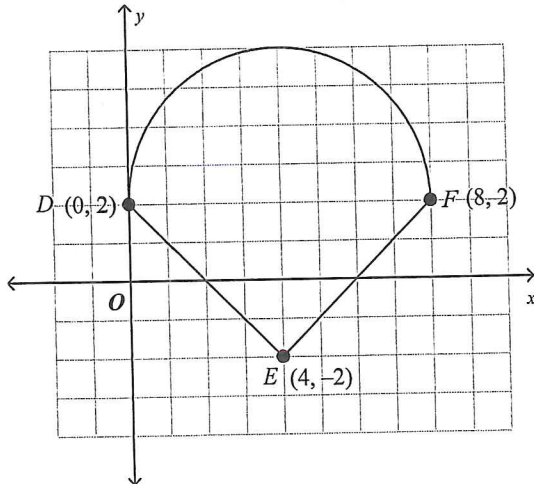
6.



- a. 51 units²
- b. 48 units²
- c. 102 units²
- d. 96 units²

D

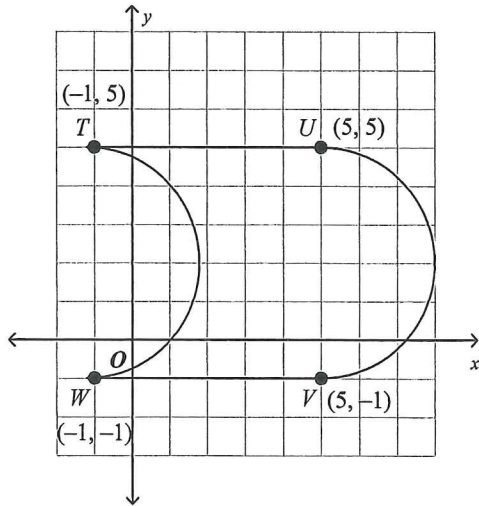
7.



- a. 57.1 units²
- b. 66.2 units²
- c. 47.3 units²
- d. 41.1 units²

A

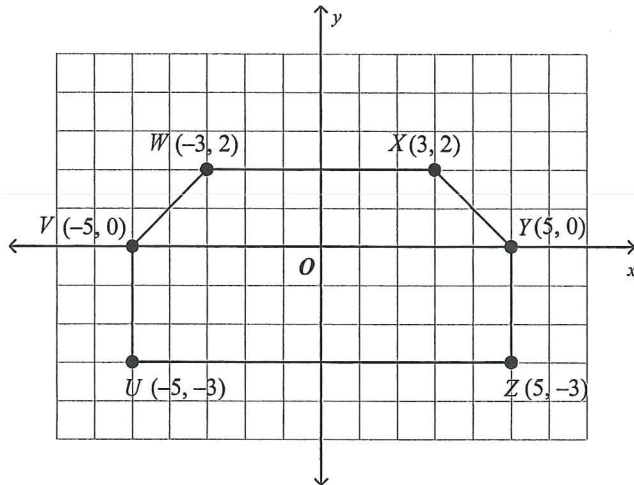
8.



- a. 36 units²
- b. 30 units²
- c. 25 units²
- d. 24 units²

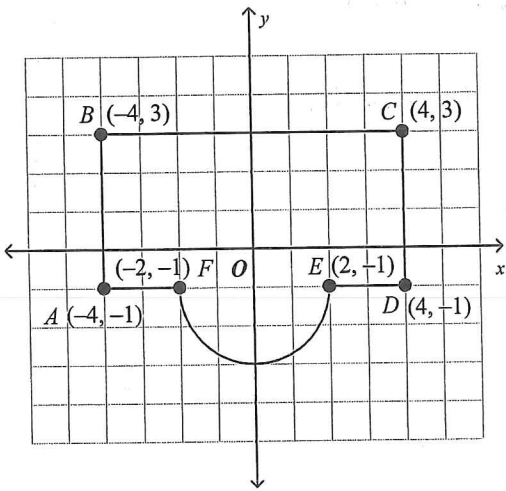
C

9.



- a. 42 units²
- b. 44 units²
- c. 46 units²
- d. 50 units²

C 10.



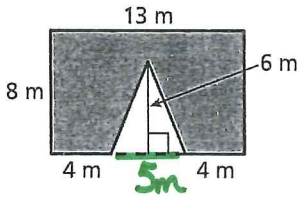
- a. 44.6 units²
- b. 36.3 units²

- c. 38.3 units²
- d. 40.5 units²

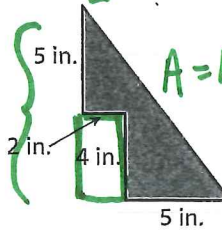
More Area Practice

Find the area of the figure.

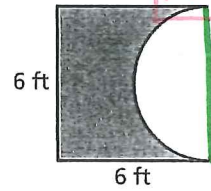
12. $13 \times 8 - \frac{1}{2} \times 5 \times 6$
 $A = 129 \text{ m}^2$



13. $\frac{1}{2} \times 9 \times 5 - 2 \times 4$
 $A = 14.5 \text{ in}^2$



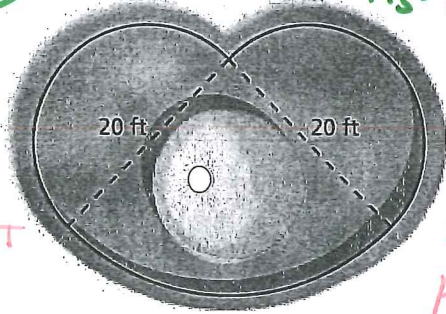
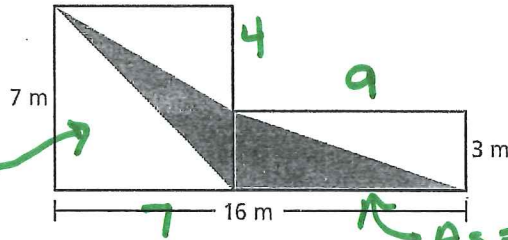
14. $6 \times 6 - \frac{1}{2} \pi \times 3^2$
 $A = 21.9 \text{ ft}^2$



TOTAL Area of shaded
 $= 10.5 + 13.5$
 $= 24 \text{ m}^2$

15. **AREA** The figure is made up of a square and a rectangle. Find the area of the shaded region.

$7 \times 7 - \frac{1}{2} \times 7 \times 4 - \frac{1}{2} \times 7 \times 7$
 $A_s = 10.5$



16. **FOUNTAIN** The fountain is made up of two semicircles and a quarter circle. Find the perimeter and area of the fountain.

$A = 2 \times \frac{1}{2} \pi r^2 + \frac{1}{4} \pi R^2$
 $A = 2 \times \frac{1}{2} \pi 10^2 + \frac{1}{4} \pi 20^2$

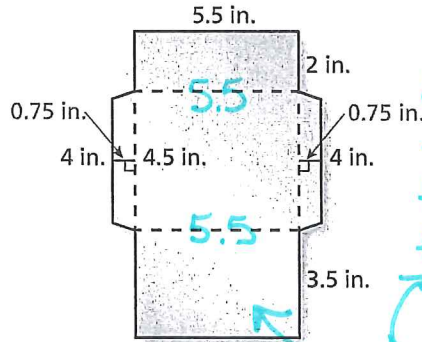
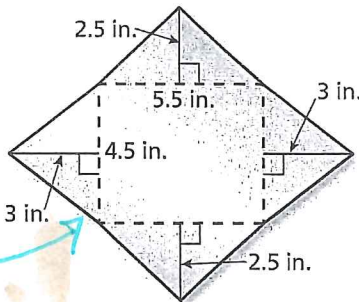
$A_s = \frac{1}{2} \times 3 \times 9$
 $A_s = 13.5$
 $r = 10$
 $R = 20$

$P = \frac{1}{2} C + \frac{1}{2} C + \frac{1}{4} \text{Big } C$
 $= \frac{1}{2} 20\pi + \frac{1}{2} 20\pi + \frac{1}{4} 40\pi$

$P = 30\pi \text{ ft}$
 $P \approx 94.2 \text{ ft}$

17. **Critical Thinking** You are deciding on two different designs for envelopes.

$A = 2 \times \frac{1}{2} \times 5.5 \times 2.5$
 $+ 2 \times \frac{1}{2} \times 4.5 \times 3$
 $+ 4.5 \times 5.5$



$2 \times \frac{1}{2} \times 0.75 \times (4 + 4.5)$
 $+ 2 \times 5.5$
 $+ 4.5 \times 5.5$
 $+ 3.5 \times 5.5$
 $A = 61.375 \text{ in}^2$

$A = 52 \text{ in}^2$
 $\times 500$
 $\approx 26,000 \text{ in}^2$

$\times 500$
 $60,687.5 \text{ in}^2$

- Which design has the greater area? **The $A = 61.375 \text{ in}^2$**
- You make 500 envelopes using the design with the greater area. Using the same amount of paper, how many more envelopes can you make with the other design? $60,687.5 \div 52$

$1167.1 - 500$

667.1 more envelopes



Fair Game Review

Write the phrase as an expression.

SECTION 1.2

18. 12 less than a number x

19. a number y divided by 6

20. a number b increased by 3

21. the product of 7 and a number w

22. **MULTIPLE CHOICE** What is 0.02% of 50?

SECTION 4.4

(A) 0.01

(B) 0.1

(C) 1

(D) 100