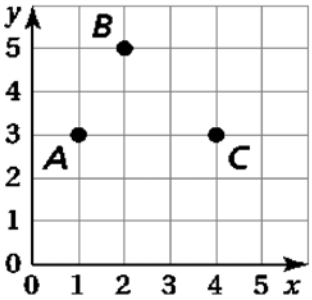
Name: _____ **Class:** _____ **Date:** _____ **ID: A**

Geometry Final Review

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

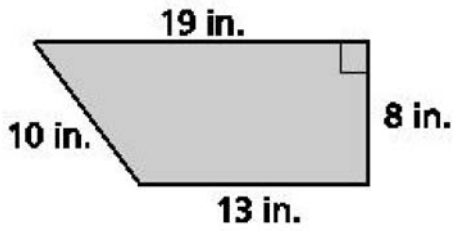
____ 1. Which description represents the area of a parallelogram?
a. the product of the length and the height
b. the sum of all of the side lengths
c. the square of the side length
d. four times the length

____ 2. The coordinate plane shows three vertices of a parallelogram. Which ordered pair could represent the fourth vertex of the parallelogram?



a. (3, 5)
b. (4, 5)
c. (5, 5)
d. (6, 5)

____ 3. Which expression represents the area of the trapezoid?

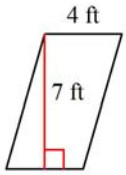


a. $\frac{1}{2} \bullet 8 \bullet (13 + 19)$
b. $8 \bullet 19$
c. $(8 + 10) \bullet 13 \div 2$
d. $10 + 13 + 8 + 19$

Name: _____ **ID: A**

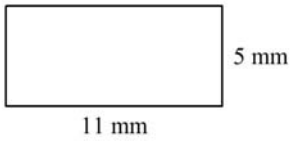
Find the area.

____ 4.



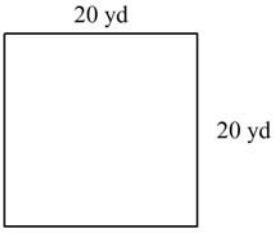
a. 22 ft^2
b. 14 ft^2
c. 28 ft^2
d. 29 ft^2

____ 5.



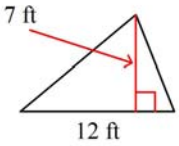
a. 32 mm^2
b. 27.5 mm^2
c. 55 mm^2
d. 59 mm^2

____ 6.



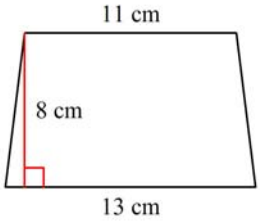
a. 80 yd^2
b. 200 yd^2
c. 393 yd^2
d. 400 yd^2

____ 7.



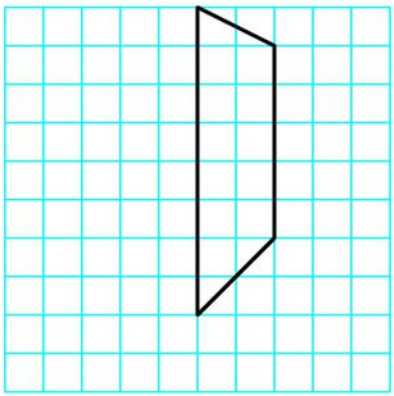
a. 19 ft^2
b. 42 ft^2
c. 38 ft^2
d. 84 ft^2

____ 8.



a. 12 cm^2
b. 104 cm^2
c. 96 cm^2
d. 32 cm^2

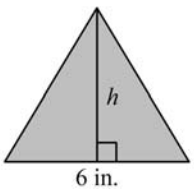
____ 9.



a. 15 $units^2$
b. 16 $units^2$
c. 13 $units^2$
d. 7 $units^2$

Write and solve an equation to find the missing dimension of the figure. Check your solution.

____ 10. Area = 15 $in.^2$



a. 5 in.
b. 2.5 in.
c. 3 in.
d. 7.5 in.

Name the word that matches the definition given.

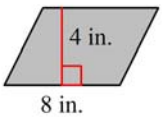
____ 11. A figure made up of triangles, squares, rectangles, and other two-dimensional figures

a. polygon
b. composite figure
c. circle
d. sphere
e. prism
f. pyramid

Name: _____ **ID: A**

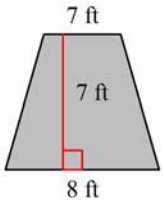
Use a formula to find the area of the figure.

____ 12.



a. 64 in.^{2}
b. 16 in.^{2}
c. 12 in.^{2}
d. 32 in.^{2}

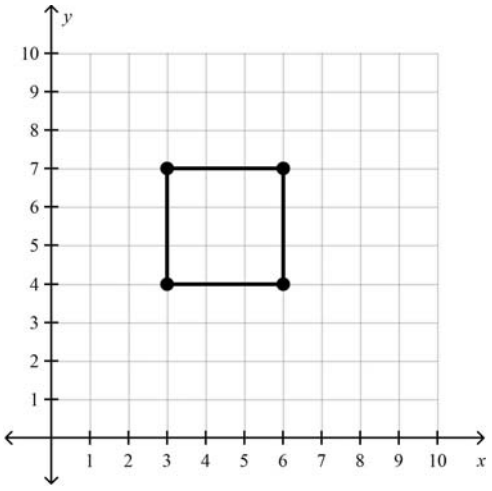
____ 13.



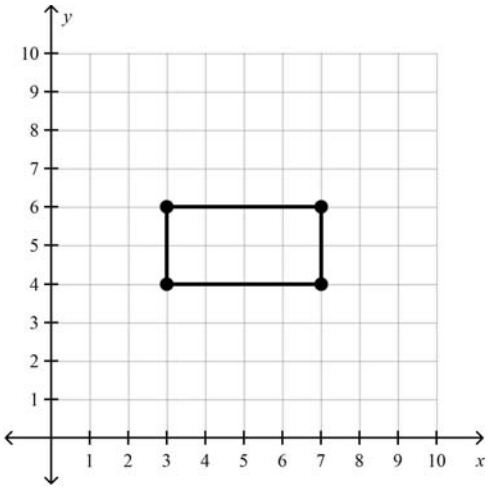
a. 105 ft^2
b. 56 ft^2
c. 52.5 ft^2
d. 28 ft^2

____ 14. Which polygon below represents the polygon with vertices $G(3, 4), H(3, 7), J(6, 7), K(6, 4)$?

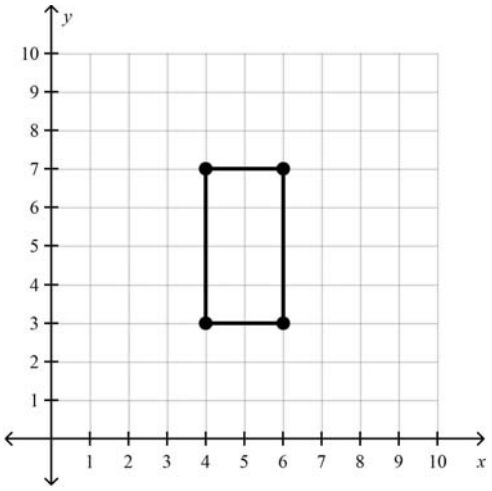
a.



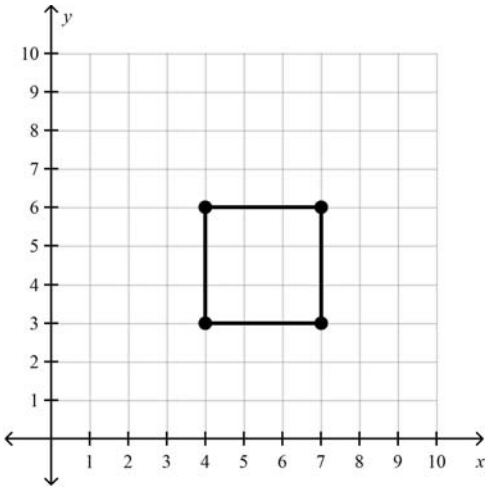
c.



b.

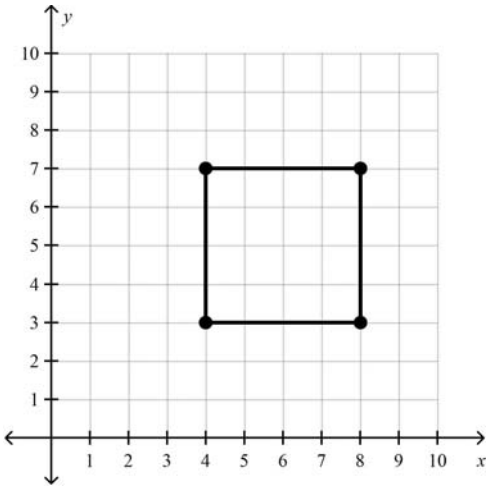


d.

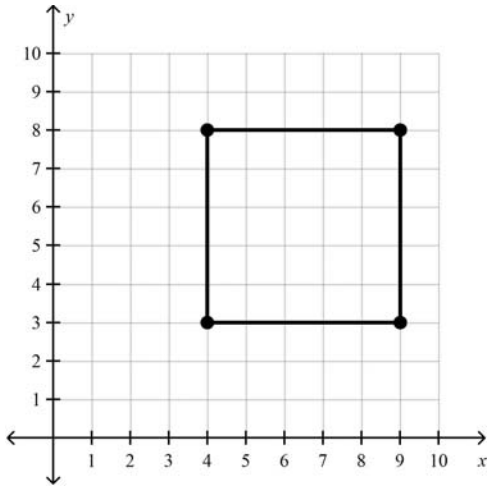


____ 15. Which of the following shows a square with an area of 16 square units?

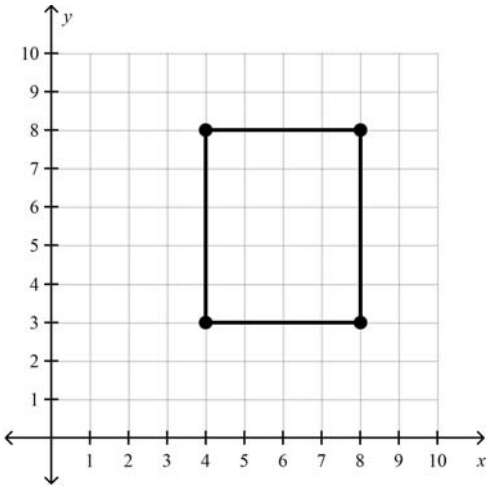
a.



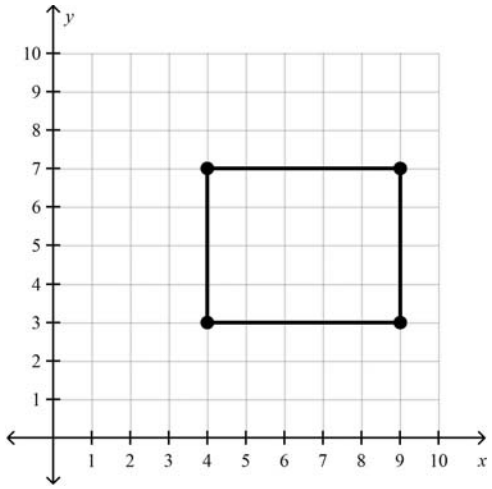
c.



b.

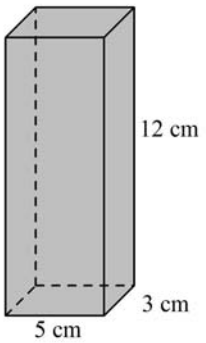


d.



Find the volume of the prism.

____ 16.



a. 60 cm^3

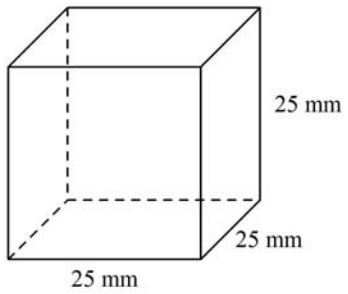
b. 176 cm^3

c. 180 cm^3

d. 15 cm^3

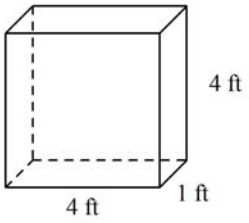
Find the surface area of the figure.

____ 17.



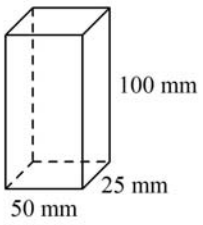
a. 1,875 mm^2
b. 3,735 mm^2
c. 3,750 mm^2
d. 15,625 mm^2

____ 18.



a. 46 ft^2
b. 16 ft^2
c. 24 ft^2
d. 48 ft^2

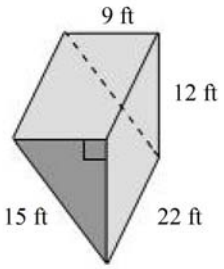
____ 19.



a. 8,750 mm^2
b. 125,000 mm^2
c. 17,470 mm^2
d. 17,500 mm^2

Find the surface area of the triangular prism.

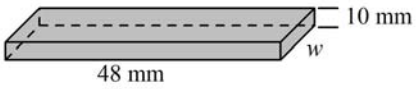
____ 20.



a. 900 ft^2
b. 1692 ft^2
c. 1008 ft^2
d. 896 ft^2

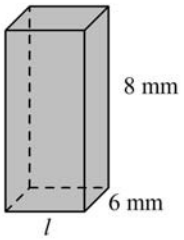
Write and solve an equation to find the missing dimension of the prism. Check your solution.

____ 21. Volume = 21,120 mm^3



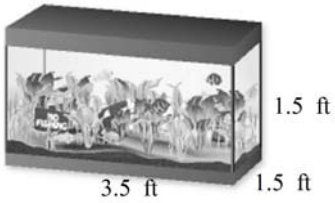
a. 44 mm
b. 45 mm
c. 440 mm
d. 450 mm

____ 22. Volume = 192 mm^3



a. 48 mm
b. 5 mm
c. 4 mm
d. 15 mm

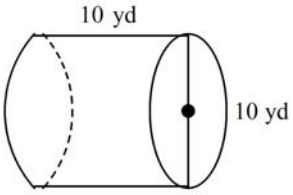
____ 23. One cubic foot of water weighs about 62.4 pounds. How many pounds of water can the fish tank hold when it is full?



a. 8 lb
b. 327.6 lb
c. 448.1 lb
d. 491 lb

Find the volume.

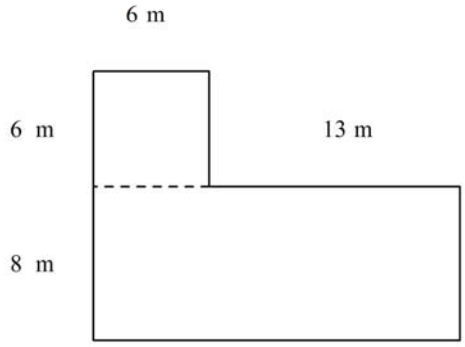
____ 24.



a. $500\pi \approx 1{,}570$ yd^3
b. $250\pi \approx 785$ yd^3
c. $100\pi \approx 314$ yd^3
d. $1{,}000\pi \approx 3{,}140$ yd^3

Find the perimeter of the figure.

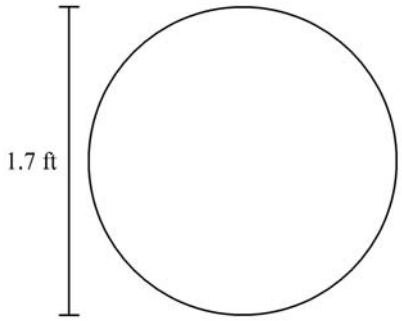
____ 25.



a. 33 m
b. 72 m
c. 66 m
d. 188 m

Find the area of the circle. Use 3.14 or $\frac{22}{7}$ for π.

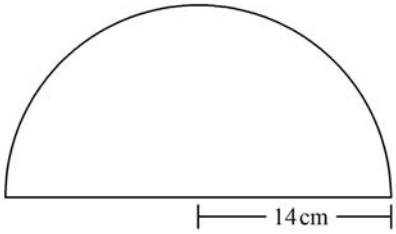
____ 26.



a. about 5.338 ft^2
b. about 2.26865 ft^2
c. about 9.0746 ft^2
d. about 3.37865 ft^2

Find the perimeter.

____ 27.

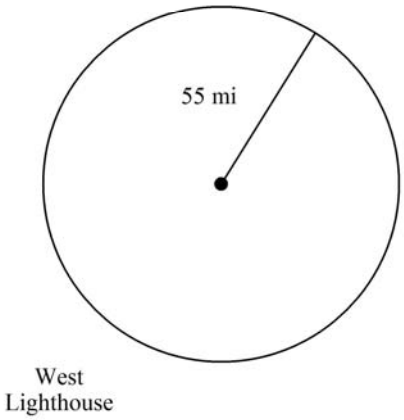


a. about 116 cm
b. about 72 cm
c. about 88 cm
d. about 44 cm

____ 28. Find the area of a circle with a diameter of 37 millimeters.

a. about 4,298.66 mm^2
b. about 1,074.665 mm^2
c. about 1,075.775 mm^2
d. about 116.18 mm^2

____ 29. The West Lighthouse lights up how much more area than the East Lighthouse?



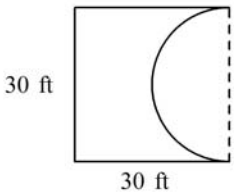
West Lighthouse

East Lighthouse

a. about 1,884 mi^2
b. about 7,537.11 mi^2
c. about 7,536 mi^2
d. about 188.4 mi^2

Find the area of the figure.

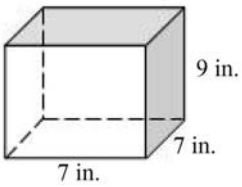
____ 30.



a. 546.75 ft^2
b. 547.86 ft^2
c. 1,253.25 ft^2
d. 900 ft^2

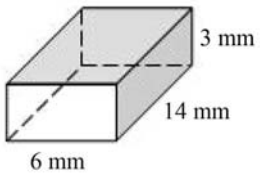
Find the surface area of the prism.

____ 31.



a. 301 $in.^2$
b. 175 $in.^2$
c. 350 $in.^2$
d. 287 $in.^2$

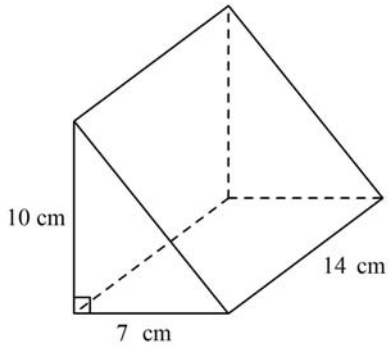
____ 32.



a. 270 mm^2
b. 288 mm^2
c. 144 mm^2
d. 304 mm^2

Find the volume of the prism.

____ 33.



a. 980 cm^3
b. 490 cm^3
c. 31 cm^3
d. 132 cm^3

Geometry Final Review
Answer Section

MULTIPLE CHOICE

1. A
2. C
3. A
4. C
5. C
6. D
7. B
8. C
9. C
10. A
11. B
12. D
13. C
14. A
15. A
16. C
17. C
18. D
19. D
20. A
21. A
22. C
23. D
24. B
25. C
26. B
27. B
28. B
29. C
30. A
31. C
32. B
33. B