

Geometry B

Name \_\_\_\_\_ ID: 1

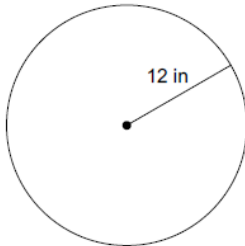
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Area Formula Application

Date \_\_\_\_\_ Period \_\_\_\_\_

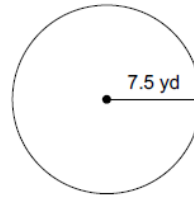
Find the area of each. Use 3.14 for the value of  $\pi$ . Round your answer to the nearest tenth.

1)



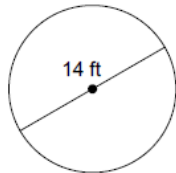
- A) 37.7 in<sup>2</sup>
- B) 113 in<sup>2</sup>
- C) 452.2 in<sup>2</sup>
- D) 482.8 in<sup>2</sup>

2)



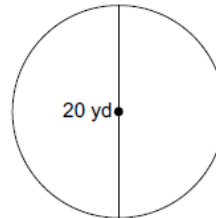
- A) 181.3 yd<sup>2</sup>
- B) 206 yd<sup>2</sup>
- C) 176.6 yd<sup>2</sup>
- D) 23.5 yd<sup>2</sup>

3)



- A) 191.1 ft<sup>2</sup>
- B) 201 ft<sup>2</sup>
- C) 153.9 ft<sup>2</sup>
- D) 176.7 ft<sup>2</sup>

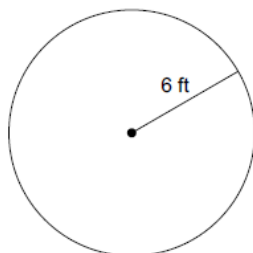
4)



- A) 352.8 yd<sup>2</sup>
- B) 339.6 yd<sup>2</sup>
- C) 314 yd<sup>2</sup>
- D) 346.2 yd<sup>2</sup>

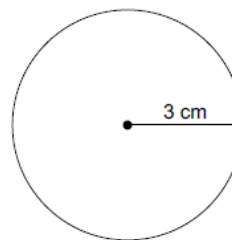
Find the circumference of each circle. Use 3.14 for the value of  $\pi$ . Round your answer to the nearest tenth.

5)



- A) 41.5 ft
- B) 37.7 ft
- C) 38.3 ft
- D) 40.8 ft

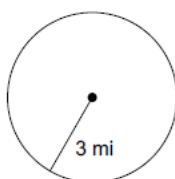
6)



- A) 9.4 cm
- B) 18.8 cm
- C) 20.1 cm
- D) 24.5 cm

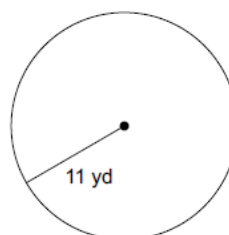
Find the area of each. Find the exact area

7)



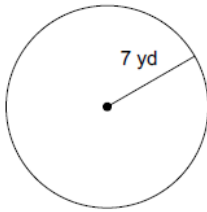
- A)  $25\pi$  mi<sup>2</sup>
- B)  $36\pi$  mi<sup>2</sup>
- C)  $9\pi$  mi<sup>2</sup>
- D)  $4\pi$  mi<sup>2</sup>

8)



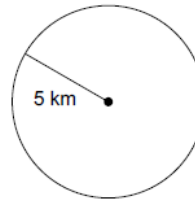
- A)  $49\pi$  yd<sup>2</sup>
- B)  $100\pi$  yd<sup>2</sup>
- C)  $36\pi$  yd<sup>2</sup>
- D)  $121\pi$  yd<sup>2</sup>

9)



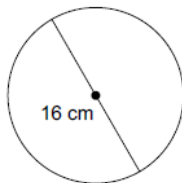
- A)  $81\pi \text{ yd}^2$       B)  $25\pi \text{ yd}^2$   
 C)  $64\pi \text{ yd}^2$       D)  $49\pi \text{ yd}^2$

10)



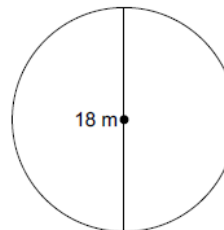
- A)  $25\pi \text{ km}^2$       B)  $9\pi \text{ km}^2$   
 C)  $49\pi \text{ km}^2$       D)  $36\pi \text{ km}^2$

11)



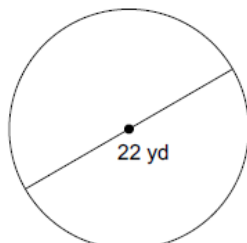
- A)  $100\pi \text{ cm}^2$       B)  $64\pi \text{ cm}^2$   
 C)  $81\pi \text{ cm}^2$       D)  $16\pi \text{ cm}^2$

12)



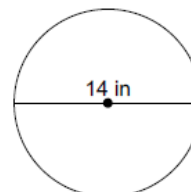
- A)  $25\pi \text{ m}^2$       B)  $100\pi \text{ m}^2$   
 C)  $81\pi \text{ m}^2$       D)  $49\pi \text{ m}^2$

13)



- A)  $121\pi \text{ yd}^2$       B)  $64\pi \text{ yd}^2$   
 C)  $100\pi \text{ yd}^2$       D)  $49\pi \text{ yd}^2$

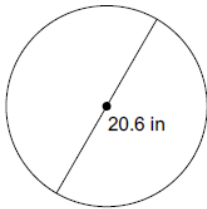
14)



- A)  $25\pi \text{ in}^2$       B)  $49\pi \text{ in}^2$   
 C)  $64\pi \text{ in}^2$       D)  $36\pi \text{ in}^2$

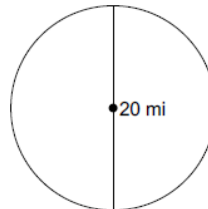
Find the circumference of each circle. Use 3.14 for the value of  $\pi$ . Round your answer to the nearest tenth.

15)



- A) 67.2 in
- B) 65.3 in
- C) 32.4 in
- D) 64.7 in

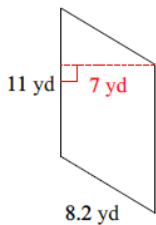
16)



- A) 64.1 mi
- B) 125.6 mi
- C) 19.9 mi
- D) 62.8 mi

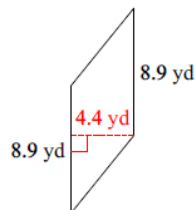
Find the area of each.

17)



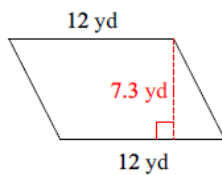
- A) 154 yd<sup>2</sup>
- B) 38.5 yd<sup>2</sup>
- C) 77 yd<sup>2</sup>
- D) 75.2 yd<sup>2</sup>

18)



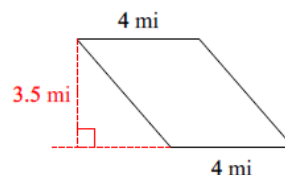
- A) 39.16 yd<sup>2</sup>
- B) 42.76 yd<sup>2</sup>
- C) 78.32 yd<sup>2</sup>
- D) 19.6 yd<sup>2</sup>

19)



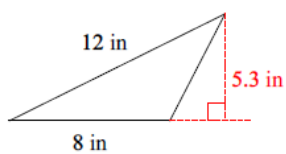
- A) 43.8 yd<sup>2</sup>
- B) 93 yd<sup>2</sup>
- C) 175.2 yd<sup>2</sup>
- D) 87.6 yd<sup>2</sup>

20)



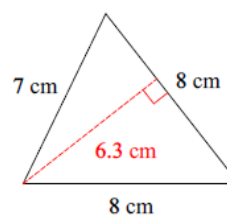
- A) 16.6 mi<sup>2</sup>
- B) 15.5 mi<sup>2</sup>
- C) 7 mi<sup>2</sup>
- D) 14 mi<sup>2</sup>

21)



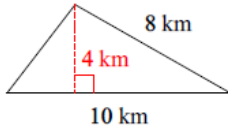
- A) 10.6 in<sup>2</sup>
- B) 24.2 in<sup>2</sup>
- C) 21.2 in<sup>2</sup>
- D) 42.4 in<sup>2</sup>

22)



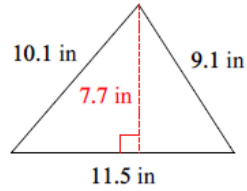
- A) 18.8 cm<sup>2</sup>
- B) 37.6 cm<sup>2</sup>
- C) 25.2 cm<sup>2</sup>
- D) 50.4 cm<sup>2</sup>

23)



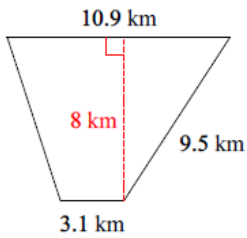
- A)  $10 \text{ km}^2$       B)  $20 \text{ km}^2$   
 C)  $40 \text{ km}^2$       D)  $16.8 \text{ km}^2$

24)



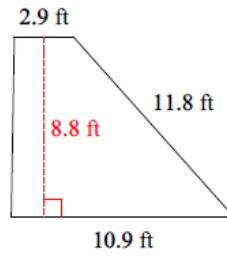
- A)  $22.1 \text{ in}^2$       B)  $47.275 \text{ in}^2$   
 C)  $88.55 \text{ in}^2$       D)  $44.275 \text{ in}^2$

25)



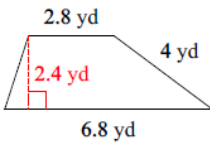
- A)  $56 \text{ km}^2$       B)  $112 \text{ km}^2$   
 C)  $61.8 \text{ km}^2$       D)  $30.9 \text{ km}^2$

26)



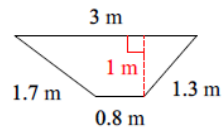
- A)  $68.32 \text{ ft}^2$       B)  $121.44 \text{ ft}^2$   
 C)  $30.4 \text{ ft}^2$       D)  $60.72 \text{ ft}^2$

27)



- A)  $11.52 \text{ yd}^2$       B)  $15.32 \text{ yd}^2$   
 C)  $5.8 \text{ yd}^2$       D)  $23.04 \text{ yd}^2$

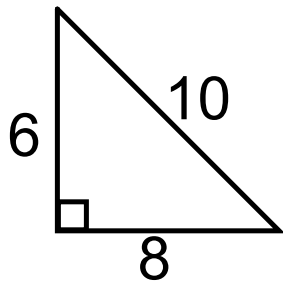
28)



- A)  $1 \text{ m}^2$       B)  $3.8 \text{ m}^2$   
 C)  $1.9 \text{ m}^2$       D)  $0.7 \text{ m}^2$

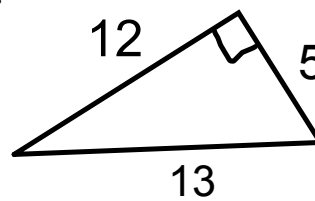
## area of right triangle

29.



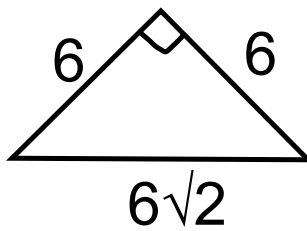
- A. 60
- B. 48
- C. 30
- D. 24

30.



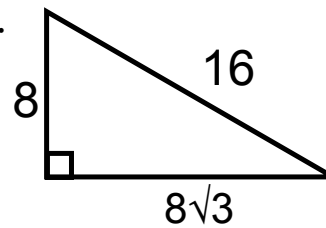
- A. 60
- B. 48
- C. 30
- D. 24

31.



- A. 36
- B.  $12\sqrt{3}$
- C.  $36\sqrt{3}$
- D. 18

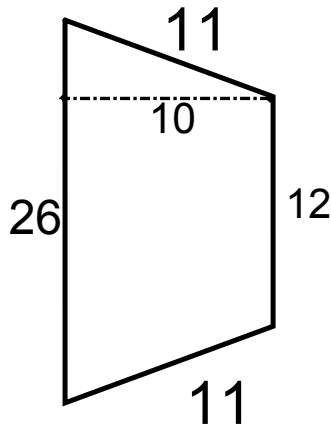
32.



- A.  $16\sqrt{3}$
- B. 64
- C.  $64\sqrt{3}$
- D.  $32\sqrt{3}$

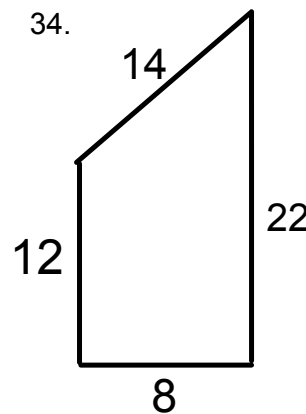
### Area of trapezoids

33.



- A. 380
- B. 190
- C. 605
- D. 302.5

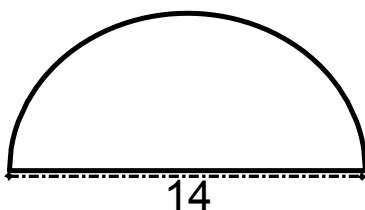
34.



- A. 156
- B. 144
- C. 120
- D. 112

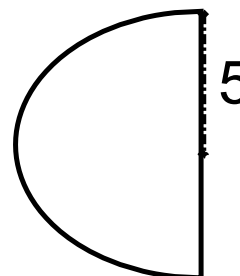
### Area of half circles. use 3.14 for pi

35.



- A. 76.93
- B. 84.67
- C. 43.96
- D. 153.86

36.



- A. 78.5
- B. 39.25
- C. 23.25
- D. 15.7