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

Chapters 3 & 8 (Geometry) Final Review

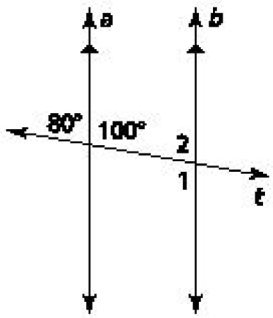
Multiple Choice
Identify the choice that best completes the statement or answers the question.

Find the sum of the interior angle measures of the polygon.

____ 1.

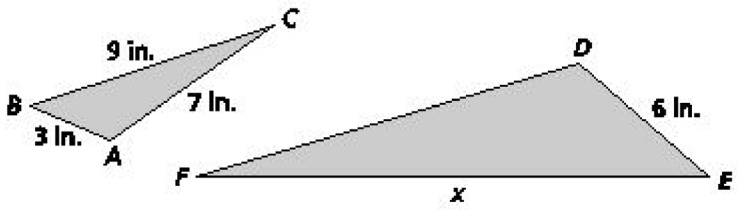
a. 360°
b. 720°
c. 380°
d. 270°

____ 2. What is the measure of ∠1?



a. 80°
b. 90°
c. 100°
d. 180°

____ 3. The figures are similar.



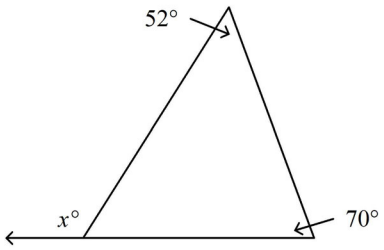
What is the value of *x*?
a. 2 inches
b. 7.7 inches
c. 14 inches
d. 18 inches

____ 4. What value of x makes the equation below true?

$\frac{x}{2} - 6 = -14$

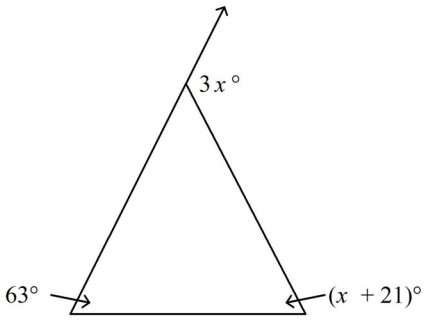
a. –40
b. –16
c. –10
d. –4

____ 5. Find the measure of the exterior angle.



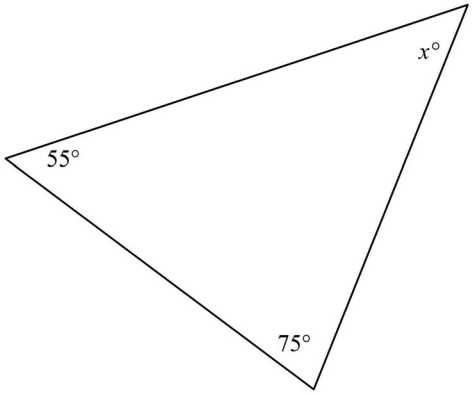
a. 70°
b. 52°
c. 122°
d. 58°

____ 6. Find the measure of the exterior angle.



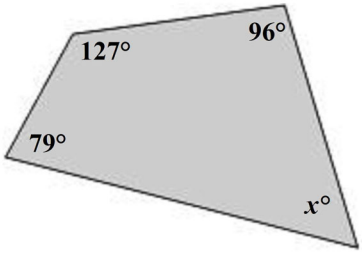
a. 126°
b. 42°
c. 24°
d. 63°

____ 7. Find the measure of the interior angle.



a. 45°
b. 130°
c. 55°
d. 50°

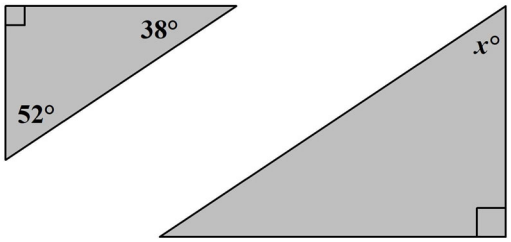
____ 8.



a. 58°
b. 360°
c. 63°
d. 418°

The triangles are similar. Find the value of *x*.

____ 9.

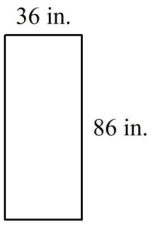


a. 38
b. 14
c. 90
d. 52

Name: _____ **ID: A**

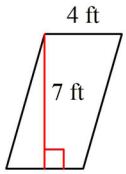
Find the area.

____ 10.



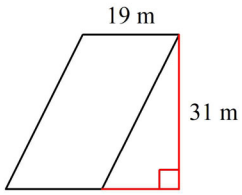
a. 3,058 in.^{2}
b. 1,548 in.^{2}
c. 244 in.^{2}
d. 3,096 in.^{2}

____ 11.



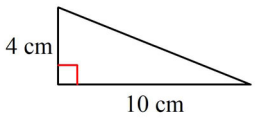
a. 22 ft^2
b. 14 ft^2
c. 28 ft^2
d. 29 ft^2

____ 12.



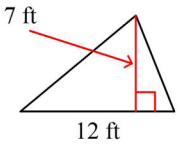
a. 294.5 m^2
b. 100 m^2
c. 589 m^2
d. 594 m^2

____ 13.



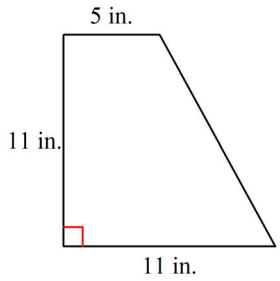
a. 14 cm^2
b. 28 cm^2
c. 20 cm^2
d. 40 cm^2

____ 14.



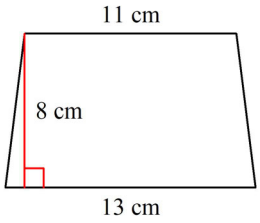
a. 19 ft^2
b. 42 ft^2
c. 38 ft^2
d. 84 ft^2

____ 15.



a. 88 in.^{2}
b. 27 in.^{2}
c. 8 in.^{2}
d. 121 in.^{2}

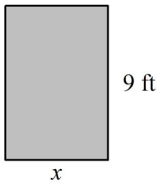
____ 16.



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

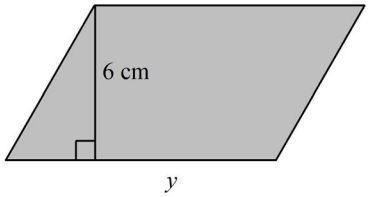
Write and solve an equation to find the missing dimension of the figure. Check your solution.

____ 17. Area = 54 ft^2



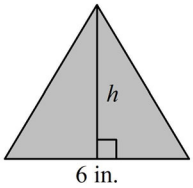
a. 486 ft
b. 6 ft
c. 18 ft
d. 7 ft

____ 18. Area = 60 cm^2



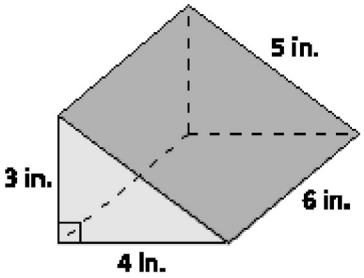
a. 12 cm
b. 10 cm
c. 24 cm
d. 20 cm

____ 19. Area = 15 $in.^2$



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

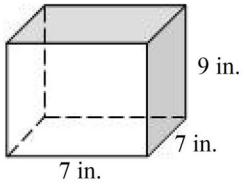
____ 20. A right triangular prism and its dimensions are shown below.What is the total surface area, in square inches, of the right triangular prism?



a. 84
b. 96
c. 180
d. 360

Find the surface area of the prism.

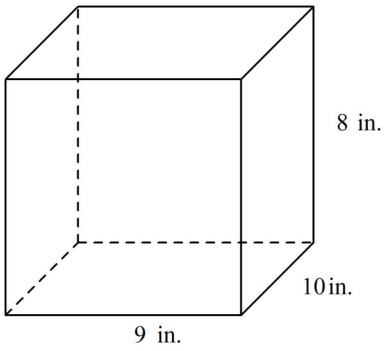
____ 21.



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

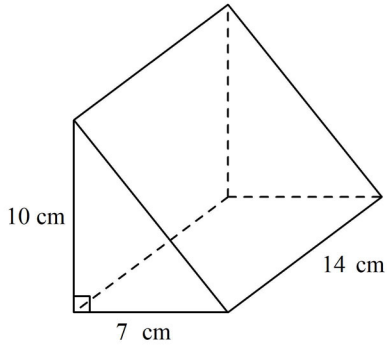
Find the volume of the prism.

____ 22.



a. 108 in.^{3}
b. 27 in.^{3}
c. 320 in.^{3}
d. 720 in.^{3}

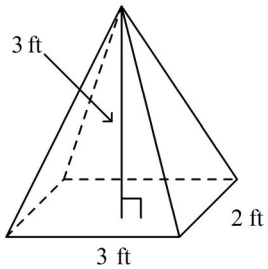
____ 23.



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

Find the volume.

____ 24.



a. 8 ft^3
b. 6 ft^3
c. 9 ft^3
d. 3 ft^3

Chapters 3 & 8 (Geometry) Final Review
Answer Section

MULTIPLE CHOICE

1. A
2. C
3. D
4. B
5. C
6. A
7. D
8. A
9. D
10. D
11. C
12. C
13. C
14. B
15. A
16. C
17. B
18. B
19. A
20. A
21. C
22. D
23. B
24. B