

Math 8 - Cumulative Final Review 1 (2021-2022)**Multiple Choice**

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

DO ALL YOUR WORK ON A SEPERATE PIECE OF PAPER.

Solve the equation. Check your solution.

1. $-7 = z - 10$
 - a. 0.7
 - b. -3
 - c. 3
 - d. -17
 2. $\frac{k}{-7} = 8$
 - a. 56
 - b. 15
 - c. $-1\frac{1}{7}$
 - d. -56
 3. $-0.9x = 2.7$
 - a. -2.43
 - b. 1.8
 - c. 3.6
 - d. -3
 4. $13 = -\frac{1}{3}c$
 - a. -39
 - b. 39
 - c. -16
 - d. 4
 5. $\frac{1}{2}(y - 8) = 4$
 - a. 24
 - b. 16
 - c. -16
 - d. 0
 6. $5x + 10x - 54 = 66$
 - a. -8
 - b. 24
 - c. 8
 - d. $-\frac{44}{61}$
 7. $5d + 8 = 33$
 - a. 4
 - b. 5
 - c. 205
 - d. $8\frac{1}{5}$
 8. $3(z - 4) = 7z + 4$
 - a. -0.8
 - b. 1.6
 - c. -2
 - d. -4
 9. $5x = -7x - 96$
 - a. $19\frac{1}{5}$
 - b. -8
 - c. $\frac{1}{8}$
 - d. -48
- Solve the equation.**
10. $5g - 50 = 5(g - 10)$
 - a. 40
 - b. -40
 - c. no solution
 - d. infinitely many solutions
 11. Between which two integers does $-\sqrt{52}$ lie?
 - a. 6 and 7
 - b. -6 and -7
 - c. -7 and -8
 - d. -20 and -21

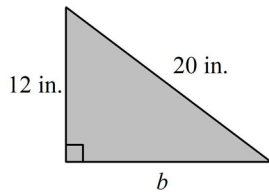
12. Evaluate the expression.

$$(\sqrt{16})^2 + 21$$

- a. 277
- b. -5
- c. 37
- d. 25

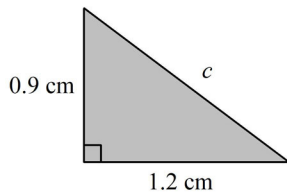
Find the missing length of the triangle.

13.



- a. 16 in.
- b. 23.3 in.
- c. 18 in.
- d. 15 in.

14.



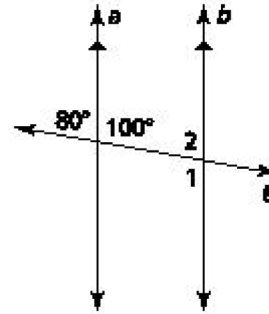
- a. 1.7 cm
- b. 1.3 cm
- c. 1.5 cm
- d. 0.79 cm

15. Classify the real number.

$$-\sqrt{9}$$

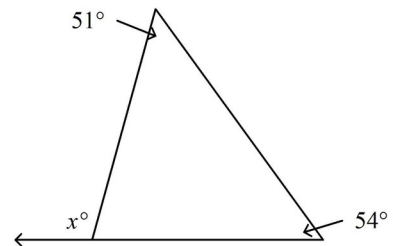
- a. rational, integer, whole, natural
- b. rational
- c. rational, integer
- d. irrational

16. What is the measure of $\angle 1$?



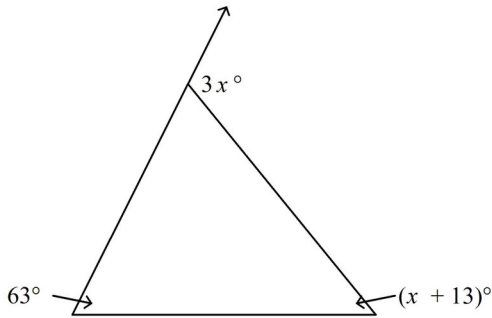
- a. 80°
- b. 90°
- c. 100°
- d. 180°

17. Find the measure of the exterior angle.



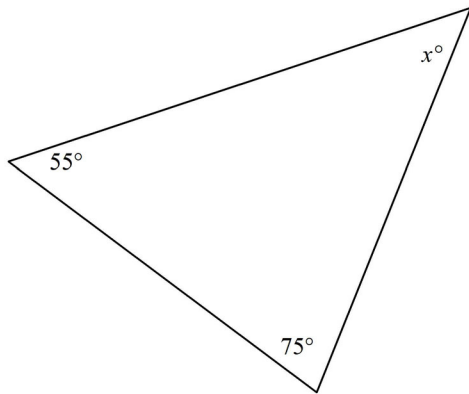
- a. 51°
- b. 75°
- c. 105°
- d. 54°

18. Find the measure of the exterior angle.



- a. 38°
- b. 26°
- c. 114°
- d. 51°

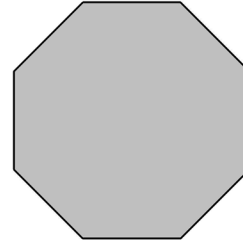
19. Find the measure of the interior angle.



- a. 45°
- b. 130°
- c. 55°
- d. 50°

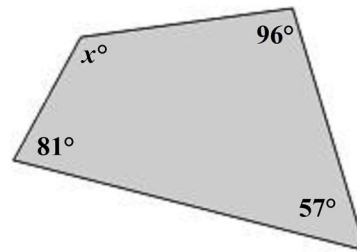
Find the sum of the interior angle measures of the polygon.

20.



- a. 1060°
- b. 1080°
- c. 1440°
- d. 720°

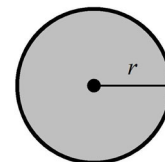
21.



- a. 129°
- b. 486°
- c. 126°
- d. 360°

Find the radius of the circle.

22. Circumference = 56.52 mm



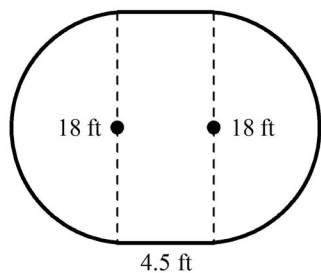
- a. 27 mm
- b. 177.47 mm
- c. 9 mm
- d. 18 mm

23. Find the area of a circle with a radius of 73 feet.

- a. about $4,183.27 \text{ ft}^2$
- b. about $16,733.06 \text{ ft}^2$
- c. about $16,734.06 \text{ ft}^2$
- d. about 458.44 ft^2

Find the area of the figure.

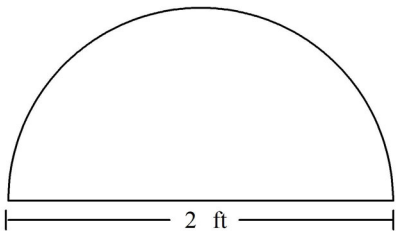
24.



- a. 95.13 ft^2
- b. 137.52 ft^2
- c. 335.34 ft^2
- d. 336.45 ft^2

Find the perimeter.

25.



- a. about 6.28 ft
- b. about 3.14 ft
- c. about 1.57 ft
- d. about 5.14 ft

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Answer Section

MULTIPLE CHOICE

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