Name: _____

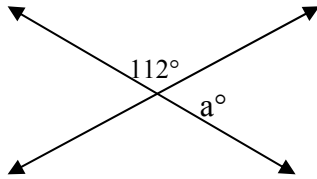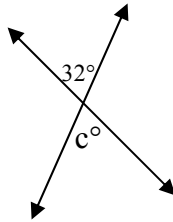# Compass Geometry Practice

1.   Find a.
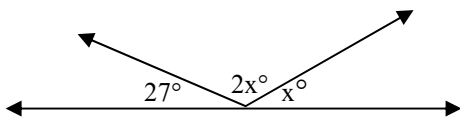
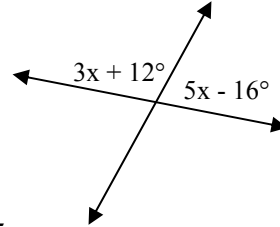

A. 38°
B. 68°
C. 78°
D. 90°
E. 112°

2.   Find c.

A. 32°
B. 48°
C. 58°
D. 82°
E. 148°

3.   Find x.
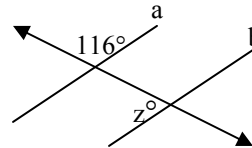

A. 21°
B. 23°
C. 51°
D. 102°
E. 153°

4.   Find x.

A. 8
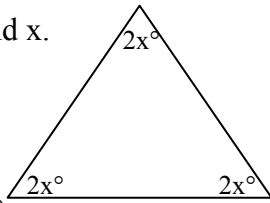B. 11.75
C. 21
D. 23
E. 32

5.   If a || b, find z.

A. 26°
B. 32°
C. 64°
D. 86°
E. 116°
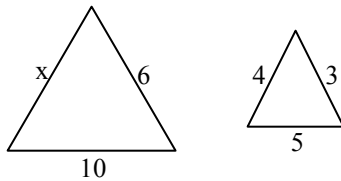
6.   Find the area of a square with a perimeter of 12 cm.

A. 9 cm^2
B. 12 cm^2
C. 48 cm^2
D. 96 cm^2
E. 144 cm^2

7. Find x.

A. 15°
B. 25°
C. 30°
D. 45°
E. 90°

8. Given the two triangles are similar, find x.

A. 12
B. 16
C. 8
D. 7
E. 20

9. Find the circumference of a circle if its radius is 3 cm.

A. 3π cm
B. 6π cm
C. 9π cm
D. 12π cm
E. 15π cm

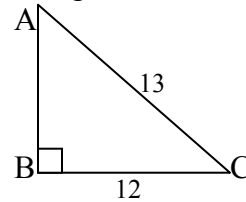10. Find the area of the circle with diameter of 22 cm.

A. 22 cm^2
B. 121 cm^2
C. 121π cm^2
D. 132 cm^2
E. 132π cm^2

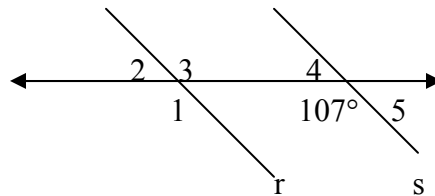11. The circumference of circle is 18π cm. Find the area of the circle.

A. 18π cm^2
B. 81 cm^2
C. 36 cm^2
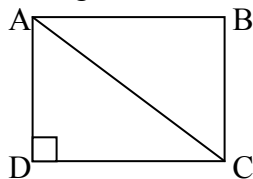D. 36π cm^2
E. 81π cm^2

12. Find the length of $\overline{AB}$.

A. 1
B. 25
C. $\sqrt{313}$
D. $\sqrt{156}$
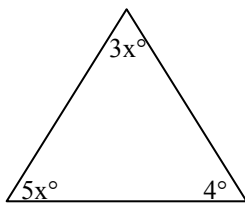E. 5

13. If r || s, find the measure of $\angle 2$.

A. 73°
B. 107°
C. 90°
D. 180°
E. 17°

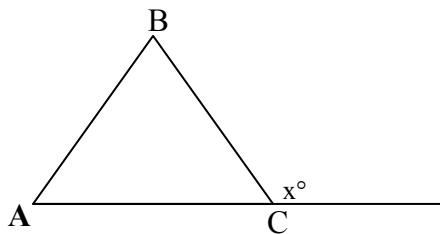14. In square ABCD, AB is 6 cm. Find the length of diagonal AC.

   A. 6 cm

   B. $6\sqrt{2}$ cm

   C. $6\sqrt{3}$ cm

   D. $6\sqrt{6}$ cm

   E. 12 cm

15. Find x.

   A. 15

   B. 10.75

   C. 22

   D. 7.15

   E. 180

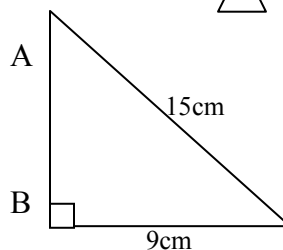16. If $\triangle ABC$ has angle A = 35° and angle B = 85°, then angle x =

   A. 85°

   B. 90°

   C. 100°

   D. 120°

   E. 180°

17. If the measure of the three angles of a triangle are (3x + 15)°, (5x − 15)°, and (2x + 30)° what is the measure of each angle?
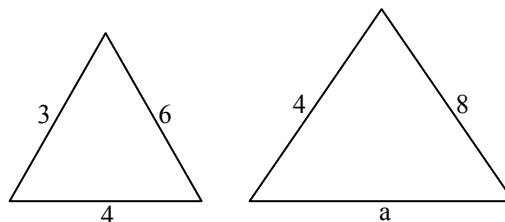
   A. 75°

   B. 60°

   C. 45°

   D. 25°

   E. 15°

18. Find the area of $\triangle$ ABC

   A. 54cm^2

   B. 81cm^2

   C. 108cm^2

   D. 135cm^2

   E. 180cm^2

19. The two triangles are similar. Find a.

   A. $5\frac{1}{3}$

   B. 6

   C. 7

   D. 5

   E. $4\frac{2}{3}$

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

Selected problems were taken from passing the CPE 2nd
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