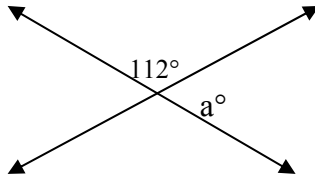


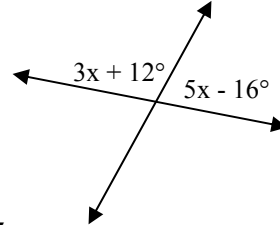
# Compass Geometry Practice

1. Find a.



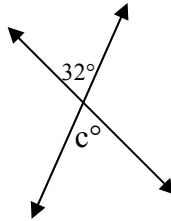
- A.  $38^\circ$
- B.  $68^\circ$
- C.  $78^\circ$
- D.  $90^\circ$
- E.  $112^\circ$

4. Find x.



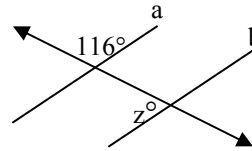
- A. 8
- B. 11.75
- C. 21
- D. 23
- E. 32

2. Find c.



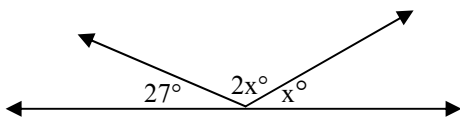
- A.  $32^\circ$
- B.  $48^\circ$
- C.  $58^\circ$
- D.  $82^\circ$
- E.  $148^\circ$

5. If  $a \parallel b$ , find z.



- A.  $26^\circ$
- B.  $32^\circ$
- C.  $64^\circ$
- D.  $86^\circ$
- E.  $116^\circ$

3. Find x.

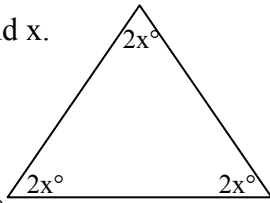


- A.  $21^\circ$
- B.  $23^\circ$
- C.  $51^\circ$
- D.  $102^\circ$
- E.  $153^\circ$

6. Find the area of a square with a perimeter of 12 cm.

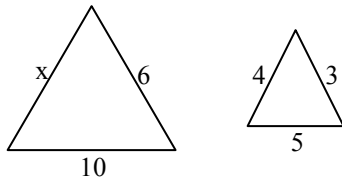
- A.  $9 \text{ cm}^2$
- B.  $12 \text{ cm}^2$
- C.  $48 \text{ cm}^2$
- D.  $96 \text{ cm}^2$
- E.  $144 \text{ cm}^2$

7. Find  $x$ .



- A.  $15^\circ$
- B.  $25^\circ$
- C.  $30^\circ$
- D.  $45^\circ$
- E.  $90^\circ$

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.  $3\pi$  cm
- B.  $6\pi$  cm
- C.  $9\pi$  cm
- D.  $12\pi$  cm
- E.  $15\pi$  cm

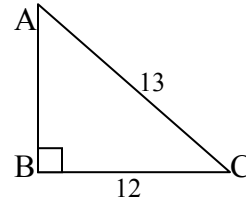
10. Find the area of the circle with diameter of 22 cm.

- A.  $22\text{ cm}^2$
- B.  $121\text{ cm}^2$
- C.  $121\pi\text{ cm}^2$
- D.  $132\text{ cm}^2$
- E.  $132\pi\text{ cm}^2$

11. The circumference of circle is  $18\pi$  cm. Find the area of the circle.

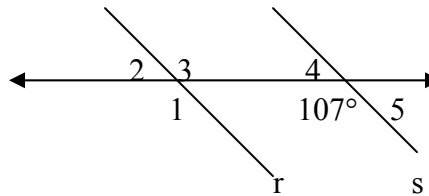
- A.  $18\pi\text{ cm}^2$
- B.  $81\text{ cm}^2$
- C.  $36\text{ cm}^2$
- D.  $36\pi\text{ cm}^2$
- E.  $81\pi\text{ cm}^2$

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



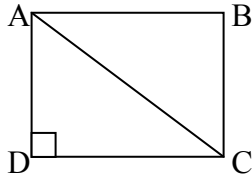
- A. 1
- B. 25
- C.  $\sqrt{313}$
- D.  $\sqrt{156}$
- E. 5

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



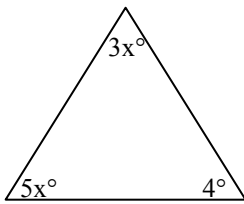
- A.  $73^\circ$
- B.  $107^\circ$
- C.  $90^\circ$
- D.  $180^\circ$
- E.  $17^\circ$

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



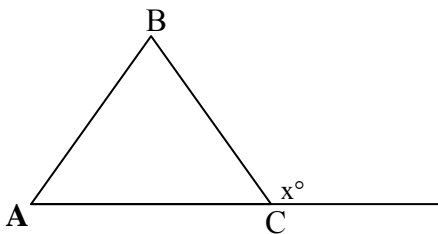
- A. 6 cm  
 B.  $6\sqrt{2}$  cm  
 C.  $6\sqrt{3}$  cm  
 D.  $6\sqrt{6}$  cm  
 E. 12 cm

15. Find x.



- A. 15  
 B. 10.75  
 C. 22  
 D. 7.15  
 E. 180

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

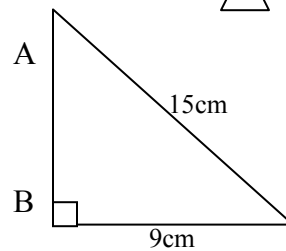


- A.  $85^\circ$   
 B.  $90^\circ$   
 C.  $100^\circ$   
 D.  $120^\circ$   
 E.  $180^\circ$

17. If the measure of the three angles of a triangle are  $(3x + 15)^\circ$ ,  $(5x - 15)^\circ$ , and  $(2x + 30)^\circ$  what is the measure of each angle?

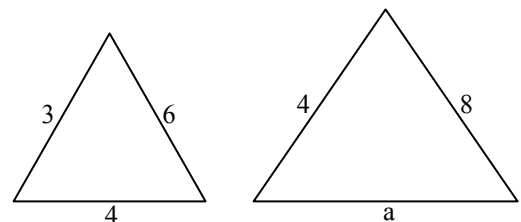
- A.  $75^\circ$   
 B.  $60^\circ$   
 C.  $45^\circ$   
 D.  $25^\circ$   
 E.  $15^\circ$

18. Find the area of  $\triangle ABC$



- A.  $54\text{cm}^2$   
 B.  $81\text{cm}^2$   
 C.  $108\text{cm}^2$   
 D.  $135\text{cm}^2$   
 E.  $180\text{cm}^2$

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 2<sup>nd</sup>  
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