



## Raid 1: Lost Planes & Triangle Traps

Directions: Choose the correct answer (A-D) for each question.

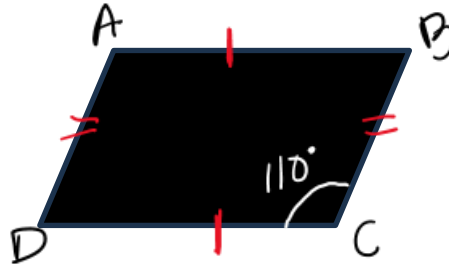
1. In figure ABCD the opposite sides are parallel. What is the measure of angle B?

A)  $110^\circ$

B)  $90^\circ$

C)  $70^\circ$

D)  $50^\circ$



2. One angle of a scalene triangle is  $38^\circ$  and the other measures at  $56^\circ$ . What is the measure of the third angle?

A)  $124^\circ$

B)  $86^\circ$

C)  $38^\circ$

D)  $56^\circ$

3. A quadrilateral (rectangle) has angles measuring  $90^\circ$ ,  $90^\circ$ ,  $85^\circ$ , and  $x$ . What is the value of  $x$ ?

A)  $85^\circ$

B)  $90^\circ$

C)  $95^\circ$

D)  $100^\circ$

4. What is the sum of the interior angles of any triangle?

A)  $90^\circ$

B)  $270^\circ$

C)  $180^\circ$

D)  $360^\circ$

5. Which shape has four sides, all the same length, and four right angles?
- A) Rectangle
  - B) Square
  - C) Parallelogram
  - D) Trapezoid
6. Which figure has exactly one pair of parallel sides?
- A) Square
  - B) Parallelogram
  - C) Trapezoid
  - D) Rectangle
7. A triangle has three equal sides. What type of triangle is it?
- A) Scalene
  - B) Right
  - C) Equilateral
  - D) Isosceles
8. A triangle has two equal sides and one angle that measures  $90^\circ$ . What type is it?
- A) Scalene
  - B) Right Isosceles
  - C) Equilateral
  - D) Acute
9. A triangle with all sides of different lengths is called what?
- A) Scalene
  - B) Equilateral
  - C) Isosceles
  - D) Right



10. A triangle has angles of  $30^\circ$ ,  $60^\circ$ , and  $90^\circ$ . What type of triangle is this?

- A) Acute
- B) Right
- C) Obtuse
- D) Isosceles

11. A triangle has two angles that measure  $45^\circ$  and  $65^\circ$ . What is the missing angle?

- A)  $70^\circ$
- B)  $60^\circ$
- C)  $75^\circ$
- D)  $50^\circ$

12. In a triangle, two angles measure  $90^\circ$  and  $30^\circ$ . What is the missing angle?

- A)  $60^\circ$
- B)  $30^\circ$
- C)  $90^\circ$
- D) Not possible

13. A triangle has one angle of  $90^\circ$  and another of  $45^\circ$ . What is the third angle?

- A)  $30^\circ$
- B)  $60^\circ$
- C)  $45^\circ$
- D)  $90^\circ$

14. One angle in a triangle is  $100^\circ$ , another is  $40^\circ$ . What is the third angle?

- A)  $30^\circ$
- B)  $20^\circ$
- C)  $40^\circ$
- D)  $60^\circ$



15. A triangle has one angle of  $25^\circ$  and another of  $75^\circ$ . What is the missing angle?

- A)  $90^\circ$
- B)  $80^\circ$
- C)  $70^\circ$
- D)  $60^\circ$

16. A right triangle has legs measuring 3 and 4 units. What is the length of the hypotenuse?

- A) 6
- B) 5
- C) 7
- D) 4.5

17. The legs of a right triangle are 6 and 8. What is the hypotenuse?

- A) 10
- B) 12
- C) 14
- D) 8

18. One leg of a right triangle is 5, and the hypotenuse is 13. What is the other leg?

- A) 12
- B) 10
- C) 8
- D) 6

19. In a right triangle, one leg is 9 and the other is 12. What is the hypotenuse?

- A) 15
- B) 13
- C) 14
- D) 12



20. What is the hypotenuse of a right triangle with legs of 7 and 24 units?

A) 26

B) 25

C) 20

D) 23



**Answer Key**

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

