GEOMETRY: ANGLES, POLYGONS, AND THE PYTHAGOREAN THEOREM - PRACTICE TEST | NEW BRUNSWICK GEOMETRY, MEASUREMENT AND FINANCE 10 · UNIT B · 25 QUESTIONS

Geometry: Angles, Polygons, and the Pythagorean Theorem, 25-question test — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1

The diagram shows a right triangle with legs 3 and 4. The hypotenuse is

Question 1

A right triangle has hypotenuse 13 and one leg 5. The other leg is

ANSWER

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2

A right triangle has legs 3 and 4. The hypotenuse is

Question 2

A right triangle has legs 3 and 4. The hypotenuse is

ANSWER

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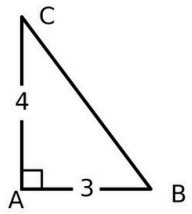
3 **The diagram shows a right triangle with legs 6 and 8. The hypotenuse is**



ANSWER

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4 **A right triangle has legs 6 and 8. The hypotenuse is**

Question 4

A polygon with 5 sides is called a

A) hexagon

B) pentagon

C) octagon

D) quadrilateral

ANSWER

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5

The diagram shows a right triangle with legs 5 and 12. The hypotenuse is

Question 5

A rectangle has length 9 and width 4. Its perimeter is

ANSWER

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6

A right triangle has legs 5 and 12. The hypotenuse is

Question 6

A square has side 7. Its perimeter is

ANSWER

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7 The diagram shows a right triangle with legs 9 and 12. The hypotenuse is

Question 7

A polygon with 8 sides is called an

A) pentagon

B) hexagon

C) octagon

D) triangle

ANSWER

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8 A right triangle has legs 9 and 12. The hypotenuse is

Question 8

A quadrilateral has how many sides

A) 3

B) 4

C) 5

D) 6

ANSWER

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9

The diagram shows a right triangle with legs 8 and 15. The hypotenuse is

Question 9

A regular polygon has sides that are

A) all different

B) all curved

C) all right angles

D) all equal

ANSWER

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10

A right triangle has legs 8 and 15. The hypotenuse is

Question 10

A straight angle measures

A) 90 degrees

B) 360 degrees

C) 180 degrees

D) 45 degrees

ANSWER

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11 A right triangle has hypotenuse 13 and one leg 5. The other leg is

Question 11

An angle greater than 90 degrees and less than 180 degrees is

A) acute

B) right

C) obtuse

D) reflex

ANSWER

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12 A right triangle has hypotenuse 25 and one leg 7. The other leg is

Question 12

An angle less than 90 degrees is called

A) obtuse

B) acute

C) right

D) straight

ANSWER

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13

A right triangle has hypotenuse 10 and one leg 6. The other leg is

Question 13

An angle of 90 degrees is called a

A) acute angle

B) right angle

C) obtuse angle

D) straight angle

ANSWER

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14

The sum of the interior angles of any triangle is

Question 14

The Pythagorean theorem applies to

A) right triangles

B) all circles

C) all rectangles only

D) any polygon

A 180 degrees

B 90 degrees

C 360 degrees

D 270 degrees

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15

A polygon with 5 sides is called a

Question 15

The sum of the interior angles of a quadrilateral is

A) 180 degrees

B) 360 degrees

C) 90 degrees

D) 540 degrees

A hexagon

B pentagon

C octagon

D quadrilateral

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16

A polygon with 8 sides is called an

Question 16

The sum of the interior angles of any triangle is

A) 180 degrees

B) 90 degrees

C) 360 degrees

D) 270 degrees

A pentagon

B hexagon

C octagon

D triangle

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17

A regular polygon has sides that are

Question 17

A right triangle has hypotenuse 25 and one leg 7. The other leg is

A all different

B all curved

C all right angles

D all equal

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18 The Pythagorean theorem applies to

Question 18

A right triangle has legs 6 and 8. The hypotenuse is

- A right triangles
- B all circles
- C all rectangles only
- D any polygon

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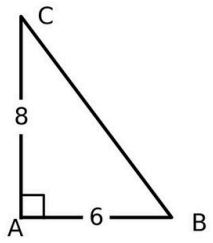
19 **An angle of 90 degrees is called a**



A acute angle

B right angle

C obtuse angle

D straight angle

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20 An angle greater than 90 degrees and less than 180 degrees is

Question 20

A polygon with 6 sides is called a

A) hexagon

B) pentagon

C) octagon

D) triangle

A acute

B right

C obtuse

D reflex

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21

Two angles that add to 90 degrees are called

Question 21

A rectangle has length 12 and width 5. Its perimeter is

A supplementary

B vertical

C adjacent only

D complementary

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22 Two angles that add to 180 degrees are called

Question 22

A square has side 9. Its perimeter is

A supplementary

B complementary

C vertical

D acute

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23 A quadrilateral has how many sides

Question 23

A right triangle has hypotenuse 10 and one leg 6. The other leg is

A 3

B 4

C 5

D 6

Understand It with Pulse | Flag a mistake

24 A rectangle has length 9 and width 4. Its perimeter is

Question 24

A right triangle has legs 5 and 12. The hypotenuse is

ANSWER

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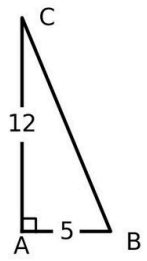
25 **A square has side 7. Its perimeter is**



ANSWER

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ANSWER KEY

1. 5
2. 5
3. 10
4. 10
5. 13
6. 13
7. 15
8. 15
9. 17
10. 17
11. 12
12. 24
13. 8
14. A
15. B
16. C
17. D
18. A
19. B
20. C
21. D
22. A
23. B
24. 26
25. 28

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