

GRE Geometry Practice Test 7

Question 1

What is the area of a triangle with side lengths 18, 24, and 30?

Possible Answers:

140

196

216

342

280



Correct answer:

216

Question 2

A triangle has sides 3, 5, and x . What can side x not be equal to?

Possible Answers:

4

6

3

9



Correct answer:

9

Question 3

Which of these side lengths cannot form a triangle?

Possible Answers:

5, 5, 5

120, 205, 310

7, 7, 12

25, 37, 66

6, 9, 14



Correct answer:

25, 37, 66

Question 4

The sides of a triangle are 6, 12, and an integer x . How many possible values does x have?

Possible Answers:

6

1

11

2

124



Correct answer:

11

Question 5

Two sides of a triangle are 5 and 7. Which CANNOT be the length of the third side?

Possible Answers:

12

5

9

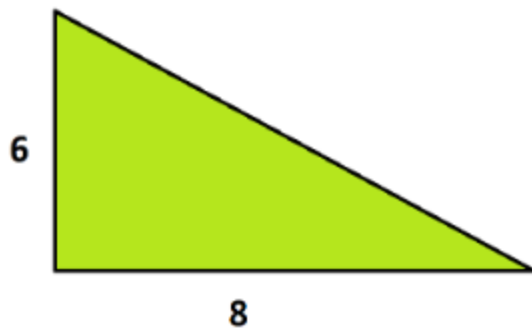
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Correct answer:

12

Question 6



A : 12

B : 3

C : 14

What is a possible value for the length of the missing side?

Possible Answers:

A only.

A, B, and C.

C only.

A and B.

B only.



Correct answer:

A and B.

Question 7

A triangle has sides of lengths 7 and 13

Quantity A: The length of the missing side.

Quantity B: 6

Possible Answers:

The relationship cannot be determined.

Quantity B is greater.

Quantity A is greater.

The two quantities are equal.



Correct answer:

Quantity A is greater.

Question 8

The lengths of two sides of a triangle are 3 and 4.

Quantity A: The length of the missing side.

Quantity B: 5

Possible Answers:

The relationship cannot be determined.

Quantity B is greater.

The two quantities are equal.

Quantity A is greater.



Correct answer:

The relationship cannot be determined.

Question 9

A triangle has sides 5 and 16

Quantity A: The length of the missing side.

Quantity B: 22

Possible Answers:

The two quantities are equal.

Quantity B is greater.

Quantity A is greater.

The relationship cannot be determined.



Correct answer:

Quantity B is greater.

Question 10

Find the perimeter of an equilateral triangle with a height of 8.

Possible Answers:

24

36

$\frac{48}{\sqrt{3}}$

$\frac{24}{\sqrt{3}}$

None of the answer choices are correct.



Correct answer:

$\frac{48}{\sqrt{3}}$