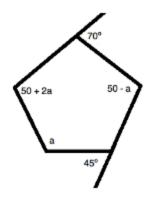
GRE Geometry Practice Test 9

Question 1

In a five-sided polygon, one angle measures 105° . What are the possible measurements of the other angles?

Possible Answers:
105, 105, 105, 110
115, 95, 110, 120
120, 115, 95, 105
145, 155, 160, 155
160, 160, 150, 140
Correct answer:
120, 115, 95, 105
Question 2
In a particular heptagon (a seven-sided polygon) the sum of four equal interior angles, each equal to a degrees, is equivalent to the sum of the remaining three interior angles.
of the remaining three interior angles.
of the remaining three interior angles. Quantity A: a
of the remaining three interior angles. Quantity A: a Quantity B: 110
of the remaining three interior angles. Quantity A: <i>a</i> Quantity B: 110 Possible Answers:
of the remaining three interior angles. Quantity A: a Quantity B: 110 Possible Answers: The relationship cannot be determined.
of the remaining three interior angles. Quantity A: a Quantity B: 110 Possible Answers: The relationship cannot be determined. Quantity B is greater
of the remaining three interior angles. Quantity A: a Quantity B: 110 Possible Answers: The relationship cannot be determined. Quantity B is greater The two quantities are equal.
of the remaining three interior angles. Quantity A: a Quantity B: 110 Possible Answers: The relationship cannot be determined. Quantity B is greater The two quantities are equal. Quantity A is greater.

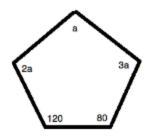


What is the value of a in the figure above?

Possible Answers:

97.5	
210	
195	
105	
~	Correct answer: 97.5

Question 4



Quantity A: The measure of the largest angle in the figure above.

Quantity B: 120

Which of the following is true?

Possible Answers:

The relationship cannot be determined.

Quantity A is larger.

Quantity B is larger.

The two quantities are equal.



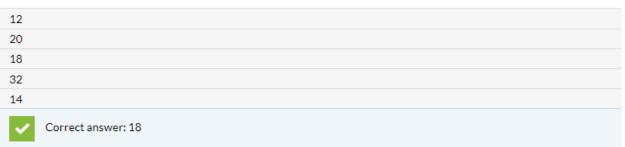
Correct answer:

Quantity A is larger.

Question 5

What is the perimeter of an isosceles triangle given that the sides 5 units long and half of the base measures to 4 units?





Question 6

An acute Isosceles triangle has two sides with length a and one side length b. The length of side $a = \frac{3}{9}$ ft. If the length of b = half the length of side a, what is the perimeter of the triangle?

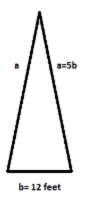
Possible Answers:	
$\frac{4}{6}$ foot	
6 inches	
1 foot	
$\frac{2}{6}$ foot	
10 inches	
Correct answer:	
10 inches	
Question 7	

An acute Isosceles triangle has two sides with length a and one side length b. The length of side a = 13. If the length of b = half the length of side a, what is the perimeter of the triangle?

Possible Answers:

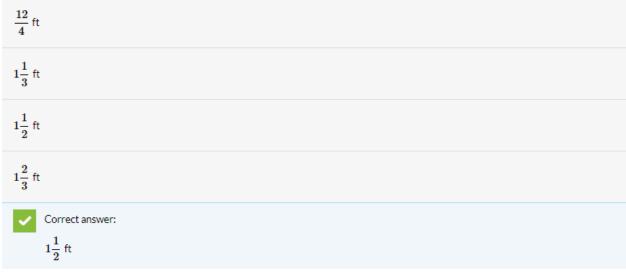
26
26.5
34.5
32.5
34
Correct answer: 32.5



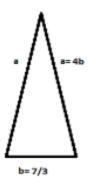


Find the perimeter of the acute Isosceles triangle shown above.

Possible Answers: Correct answer: Question 9 An obtuse Isosceles triangle has two sides with length a and one side length b. The length of side $b = \frac{3}{4}$ ft. If the length of a = half the length of side b, what is the perimeter of the triangle? Possible Answers:



Question 10



Find the perimeter of the acute Isosceles triangle shown above.

Possible Answers:

18	
21	
$\frac{35}{3}$	
27	
$\frac{56}{3}$	
~	Correct answer:
	21