

GRE Geometry Practice Test 5

1)

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:

$\frac{2}{6}$ foot

10 inches

6 inches

1 foot

$\frac{4}{6}$ foot

2)

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:

32.5

26.5

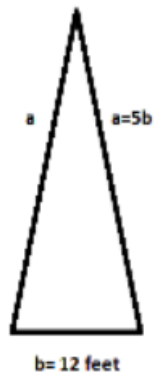
34.5

34

26

3)

10 GK



Find the perimeter of the acute Isosceles triangle shown above.

Possible Answers:

60

133

132

120

130

4)

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:

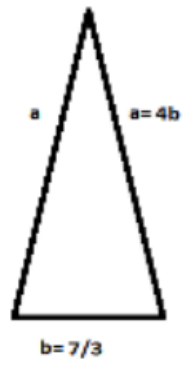
$$1\frac{2}{3} \text{ ft}$$

$$\frac{12}{4} \text{ ft}$$

$$1\frac{1}{3} \text{ ft}$$

$$1\frac{1}{2} \text{ ft}$$

5)



Find the perimeter of the acute Isosceles triangle shown above.

Possible Answers:

$$\frac{35}{3}$$

27

$$\frac{56}{3}$$

18

21

6)

An acute Isosceles triangle has two sides with length a and one side length b . The length of side $a = \frac{3}{12}$ ft. If the length of $b = a \times \frac{1}{3}$, what is the perimeter of the triangle?

Possible Answers:

$\frac{3}{4}$ foot

6 inches

$\frac{1}{4}$ foot

7 inches

$\frac{9}{12}$ foot

7)

An acute Isosceles triangle has two sides with length a and one side length b . The length of side $a = 8$ inches. The length of side $b = a \times \frac{1}{4}$. Find the perimeter of the triangle.

Possible Answers:

18 inches

19 inches

14 inches

12 inches

13 inches

8)

A triangle has two sides with length a and one side length b . The length of side $b = \frac{1}{4}$ yard. If the length of $a = 2$ the length of side b , what is the perimeter of the triangle?

Possible Answers:

$\frac{1}{3}$ yard

$\frac{5}{4}$ yard

$\frac{7}{12}$ yard

$\frac{6}{12}$ yard

$\frac{1}{4}$ yard

9)

An isosceles triangle has an angle of 110° . Which of the following angles could also be in the triangle?

Possible Answers:

110

35

20

90

55

10)

An isosceles triangle ABC is laid flat on its base. Given that $\angle B$, located in the lower left corner, is 84 degrees, what is the measurement of the top angle, $\angle A$?

Possible Answers:

20

96

42

84

12