

11.4 Assignment Triangle Measures

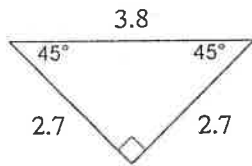
Pre-Algebra

Classify each triangle by its angles and sides.

Name: _____

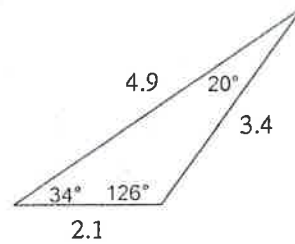
Date: Key Hour: _____

1)



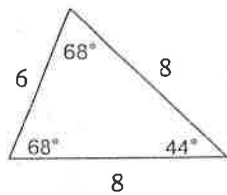
Right
Isosceles

2)



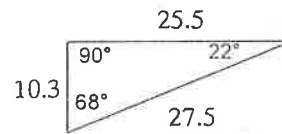
obtuse
Scalene

3)



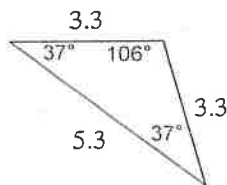
Acute
Isosceles

4)



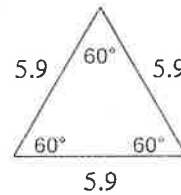
Right
Scalene

5)



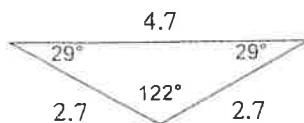
obtuse
Isosceles

6)



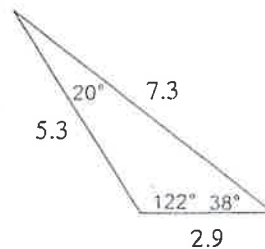
equiangular
equilateral

7)



obtuse
Isosceles

8)



obtuse
Scalene

Find the measure of angle A.

9)

$x+61$ $x+65$ 72°

$x+61$ $x+65$ 72°

$x+61 + x+65 + 72 = 180$

$2x + 198 = 180$

$2x = -18$

$x = -9$

10)

50° $5x+20$ $4x+11$

$50 + 5x+20 + 4x+11 = 180$

$9x + 81 = 180$

$9x = 99$

$x = 11$

$4(11)+11$

$44+11$

55°

11)

$2x$ $3x$ 130°

$2x$ $3x$ 130°

$2x + 3x + 130 = 180$

$5x + 130 = 180$

$5x = 50$

$x = 10$

12)

75° $x+42$ $x+67$

$75 + x+42 + x+67 = 180$

$2x + 184 = 180$

$2x = -4$

$x = -2$

$-2+67$

65°

Find the measure of each angle indicated.

13)

129° 23° $?$

$x + 129 + 23 = 180$

$x + 152 = 180$

$x = 28^\circ$

14)

36° 103° $?$

$36 + 103 + x = 180$

$139 + x = 180$

$x = 41^\circ$

15)

30° 80° $?$

$30 + 80 + x = 180$

$110 + x = 180$

$x = 70^\circ$

16)

75° 50° $?$

$x + 75 + 50 = 180$

$x + 125 = 180$

$x = 55^\circ$