

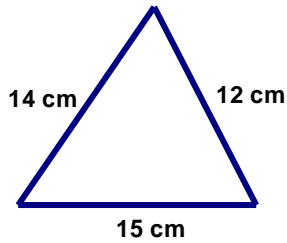
# 8-5 Heron's (Hero's) Formula and Basic Area Formula

Name: \_\_\_\_\_

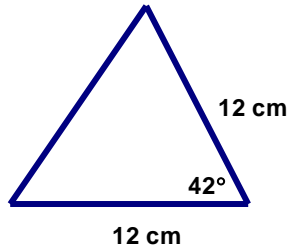
Time> Start: \_\_\_\_\_ Finish: \_\_\_\_\_ Total Time = \_\_\_\_\_

Calculate the area of the given triangles.

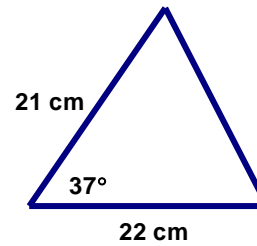
Triangle 1



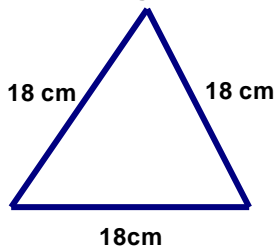
Triangle 2



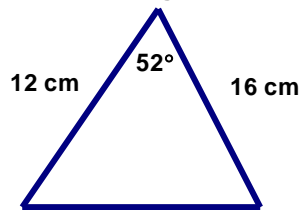
Triangle 3



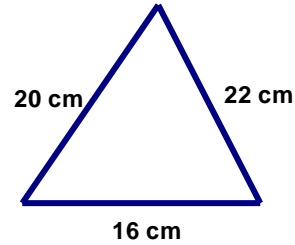
Triangle 4



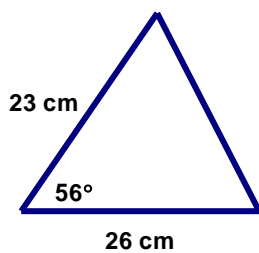
Triangle 5



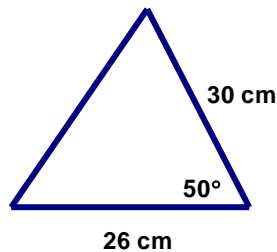
Triangle 6



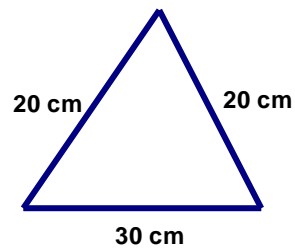
Triangle 7



Triangle 8



Triangle 9



Triangle 1 = \_\_\_\_\_

Triangle 2 = \_\_\_\_\_

Triangle 3 = \_\_\_\_\_

Triangle 4 = \_\_\_\_\_

Triangle 5 = \_\_\_\_\_

Triangle 6 = \_\_\_\_\_

Triangle 7 = \_\_\_\_\_

Triangle 8 = \_\_\_\_\_

Triangle 9 = \_\_\_\_\_

## SAT Questions

- \_\_\_\_\_ 10. Given 4 percent of  $(2a + b)$  is 18 and  $a$  is a positive integer, what is the greatest possible value of  $b$ ?
- A. 450
  - B. 449
  - C. 448
  - D. 43
  - E. 8
- \_\_\_\_\_ 11. Every term in a certain sequence is one less than three times the previous term. If the fourth term of this sequence is 95, what is the first term of the sequence?
- \_\_\_\_\_ 12. If  $m = t^3$  for any positive integer  $t$ , and if  $w = m^2 + m$ , what is  $w$  in terms of  $t$ ?
- A.  $t^2 + t$
  - B.  $t^3$
  - C.  $t^3 + t$
  - D.  $t^5 + t^3$
  - E.  $t^6 + t^3$