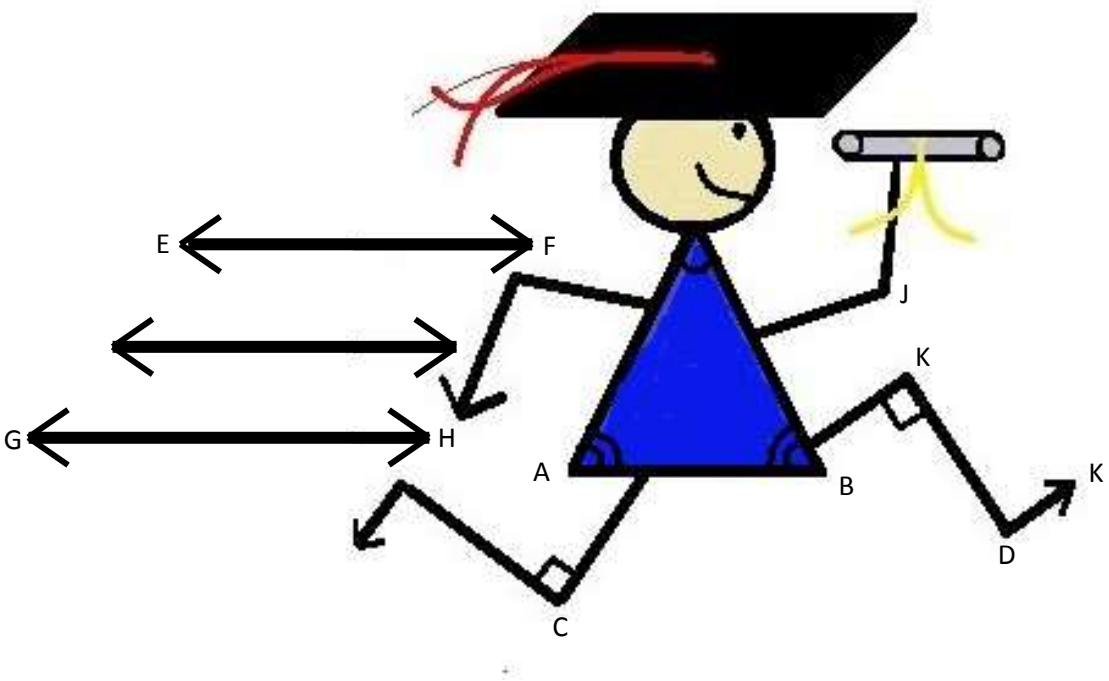
LearnMathFastBooks.com's Geometry Challenge



1. The blue triangle is an Isosceles. If $\angle A = 75°$, then $\angle B =$ _____°.

2. Is "Elbow J" an acute or obtuse angle? _____

3. What is the measurement of Angle C? _____

4. If the blue triangle is 3" tall and Side AB is 2" long, then what is the area of the blue triangle? _____

5. If the diploma were a real cylinder shape, then we could find the volume. Use the formula $V = \pi r^2 h$ to find the volume if the diameter is 1" and the height is 8".

6. The blue triangle is an isosceles. If $\angle B = 61°$, then the "neck" angle = _____

7. If the smile above were a straight line, it would create a radius. If that radius measured 4", then the area of the entire circle would be _____.

8. Do $\overline{EF}$ and $\overline{GH}$ seem to be perpendicular, parallel, or perimeter to each other? _____

9. The graduation hat above is a perfect parallelogram. One side measures 9" and the other side measures 12". If I drew a diagonal line from one corner to the other, the line would measure _____",

10. If the base of the Isosceles triangle measured 6" and Side "A to the neck" measured 9", then the perimeter of the triangle would measure _____.

ANSWERS: 1. 75° 2.Obtuse 3. 90° 4. 3 sq. inches 5. 6.28 cubic inches 6. 58° 7. 50.24 sq." 8. Parallel 9. 15" 10. 24"