## **Triangle**

Shape	Property	Example
EQUITATERAL TRIANGLE	• All three sides are equal   • Each angle equals 60° $a=b=c$ $\updownarrow$ $m\angle A=m\angle B=m\angle C=60^\circ$	B $A$ $b=1$ $C$ $B$ $A$ $B$ $A$ $B$ $B$ $A$ $B$
ISOSCEIES TRIANGIE	• Two sides are equal $b=c$ • Two base angles are equal $b=c$	c=3.8 cm $B \stackrel{22^{\circ}}{= 2 \text{ cm}} C$ $m \angle A = 180^{\circ} - 2m \angle B$ $= 180^{\circ} - 2m \angle C$ $= 180^{\circ} - 2 \times 72^{\circ}$ $= 36^{\circ}$ $m \angle B = m \angle C = \frac{180^{\circ} - m \angle A}{2}$ $= \frac{180^{\circ} - 36^{\circ}}{2}$ $= 72^{\circ}$
The sum of the interior angles of a triangle is 180°.		
RIGHT TRIANGIE	• One angle is exactly 90° $m\angle A=90^\circ \ \Rightarrow m\angle B+m\angle C=90^\circ \ (m\angle B+m\angle C=180^\circ-m\angle A)$	C 40°+50°+90°=180°  A 50° B
ACUTE TRIANGIE	All three angles are less than 90°.	43°+80°+57°=180° 80° 57°
	One of the angles is greater	25°+130°+25°=180°

One of the angles is greater than 90°.

OBTUSE TRIANGLE

130°

25

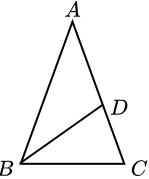
## **Triangle**

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

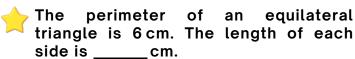
Given that AB = AC and  $m \angle A = 40^{\circ}$ ,  $m \angle B = \underline{\hspace{1cm}}^{\circ}$ .



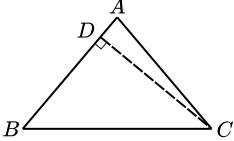
Given that AB = AC and  $m \angle ABD = m \angle CBD = 35^\circ$ ,  $m \angle BDC = ____^\circ$ .



An isosceles triangle has two equal sides of 6 cm each and a base of 5 cm. Its perimeter is \_\_\_\_\_ cm.

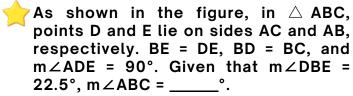


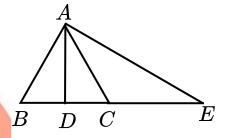


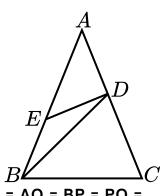


As shown in the figure,  $\triangle$  ABC is an equilateral triangle, D is the midpoint of BC, and AC = CE.

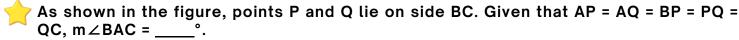
- (1) m∠BAE = \_\_\_\_°.
- (2) Given that AB = 2 cm, DE = \_\_\_\_ cm.

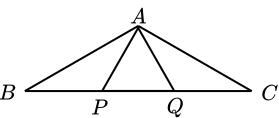






Challenge





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