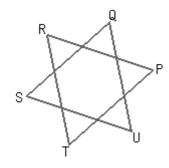
Answer the questions

(1) Find the sum of the following angles:

$$\angle P + \angle Q + \angle R + \angle S + \angle T + \angle U = ?$$



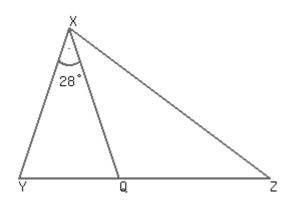
(2) In triangle $\triangle PQR$, $\angle R = 60^{\circ}$ and line segment RS bisects $\angle R$ such that RS is perpendicular to QP. Find angle $\angle Q$.

(3)
B
18
A
C

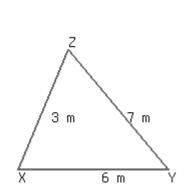
If the distance between A and C is 32 cm, find the distance between B and D.

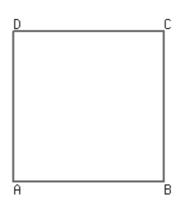
- (4) If two angles in a triangle add up to 80°, then find the value of the third angle.
- (5) Angles A, B, and C of a triangle are in the ratio 1:1:4. Find the value of angle A.
- (6) The hypotenuse of a right-angled triangle is 85 meters long. If one of the remaining sides is 77 meters long, what is the length of the remaining side?
- (7) The exterior angle of a triangle is 84° and the ratio of the opposite interior angles is 9:3. Find the larger of the two interior angles.

(8) In \triangle XYZ, Q is a point on the side YZ such that XY = XQ = QZ. If \angle YXQ = 28°, find \angle YXZ.



(9) Perimeter of a square is twice the perimeter of a triangle. Find the length of the side of a square.





Choose correct answer(s) from the given choices

(10) In triangle PQR, $\angle P > \angle R$. Which of the following is true?

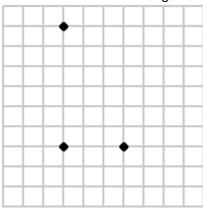
a. RQ > PR

b. RQ > PQ

c. PQ < PR

d. PQ > PR

(11) Diana drew 3 dots on the grid shown below. What type of triangle will she get if she connects the dots?



a. a right-angled triangle

c. an isosceles triangle

- **b.** an equilateral triangle
- d. none of these
- (12) Which of the following is false for a triangle?
 - a. Each angle is equal to 60°

c. Each angle is greater than 60°

- b. Two angles are acute angles
- d. One angle is an obtuse angle

(13)	It is not possible for an a	ngle and its supplement to be part of a triangle (True/False)
Che	ck True/False	
(14)	Lengths 144 meters, 272	meters, and 112 meters can be sides of a triangle. © False
(15)	Two triangles created by True	dividing a rectangle into half will be congruent. C False

Fill in the blanks