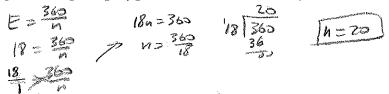
1. How many sides does a polygon have if the sum of the measures of its interior angles is 900°?

$$5i = (n-2)180$$
 $1260 = 180n$
 $n = \frac{1269}{180}$
 $180 = 180n$
 $180 =$

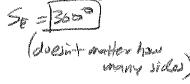
- IN = 7-
- 2. The ratio of measure of the angles of a triangle is 2:3:4. Find the measure of the largest angle.

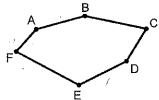


3. If each exterior angle of a regular polygon has a measure of 18°, find the number of sides of the polygon.



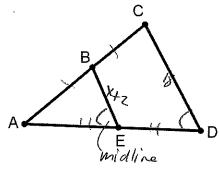
4. What is the sum of the exterior angles of polygon ABCDEF?





5. Find the sum of the measures of the interior angles of a hexagon.

- 6. How many diagonals can be drawn in a pentagon? $N = \frac{1}{2} \left(\frac{1}{2}\right) = \frac{1}{2} \left($
- 7. B is the midpoint of \overline{AC} and E is the midpoint of \overline{AD} . BE = x + 2 $\forall + 2 = ball + b + 18$ CD = 18



(b) What angle must be congruent to $\angle ADC$?

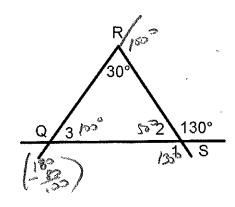
$$S_i = 180(n-2)$$

$$S_e = 360^{\circ}$$

$$E = \frac{360^{\circ}}{n}$$

$$d = \frac{n(n-3)}{2}$$

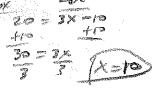
8.



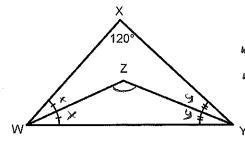
- (a) Find $m \angle 1$: $\boxed{30}$
- (b) Find *m*∠2: 50°
- (c) Find $m \angle 3$: $/00^{\circ}$
- (d) Is $\triangle QRS$ isosceles? ho
- (e) Is $\triangle QRS$ equilateral?
- (f) If an exterior angle of $\triangle QRS$ were drawn at R, how many degrees would it contain? 150°

9. Solve for x:

10. Find $m \angle LMN$:

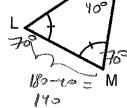


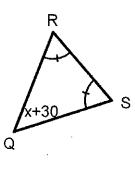
11. Find $m \angle WZY$:



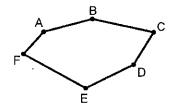
12. Find $m \angle L$:



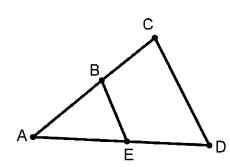




- 1. How many sides does a polygon have if the sum of the measures of its interior angles is 900°?
- 2. The ratio of measure of the angles of a triangle is 2:3:4. Find the measure of the largest angle.
- 3. If each exterior angle of a regular polygon has a measure of 18°, find the number of sides of the polygon.
- 4. What is the sum of the exterior angles of polygon ABCDEF?



- 5. Find the sum of the measures of the interior angles of a hexagon.
- 6. How many diagonals can be drawn in a pentagon?
- 7. B is the midpoint of \overline{AC} and E is the midpoint of \overline{AD} . BE = x + 2 CD = 18
 - (a) Solve for x:
 - (b) What angle must be congruent to $\angle ADC$?

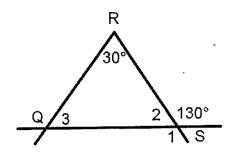


$$S_i = 180(n-2)$$

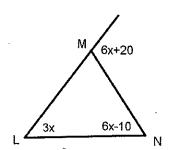
$$S_a = 360^{\circ}$$

$$E = \frac{360}{8}$$

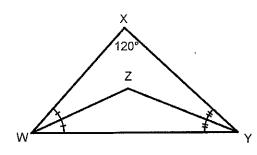
$$d = \frac{n(n-3)}{2}$$



- (a) Find $m \angle 1$:
- (b) Find $m \angle 2$:
- (c) Find $m \angle 3$:
- (d) Is $\triangle QRS$ isosceles?
- (e) Is $\triangle QRS$ equilateral?
- (f) If an exterior angle of ΔQRS were drawn at R, how many degrees would it contain?
- 9. Solve for x:
- 10. Find $m \angle LMN$:



11. Find $m \angle WZY$:



12. Find $m \angle L$:

