**Find the unknown sides or the angles in the questions below, using the classification of polygons.  
  
1.** The triangle ABC is equilateral and angle A = 60:

**C**

**B**

**A**

**Angle B = \_\_\_\_\_\_\_\_\_\_\_ ; Angle C = \_\_\_\_\_\_\_\_\_\_\_**

**2.** The square JKLM is a rhombus and JK = 4 cm:

**M**

**L**

**K**

**J**

**LM = \_\_\_\_\_\_\_\_\_\_\_ ; Angle K = \_\_\_\_\_\_\_\_\_\_\_  
  
3.** The parallelogram ABCD has angle A = 80°, angle B = 100°, angle = 80°:

**D**

**C**

**B**

**A**

**Angle D = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
4.** An isosceles triangle DEF with angle D = 90°, angle E = 45°:

**Angle F = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Match the columns:**

|  |  |
| --- | --- |
|  | **Trapezium** |
|  | **Hexagon** |
|  | **Parallelogram** |
|  | **Right triangle** |
|  | **Isosceles triangle** |
|  | **Rhombus** |
|  | **Pentagon** |
|  | **Rectangle** |

**Find the sum of interior angles for each polygon mentioned:  
  
1. Heptagon 2. Dodecagon**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**3. Nonagon 4. Pentagon**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
  
  
Find the number of sides in each case, given the sum of interior angles:  
  
  
1. Angle Sum = 1620°  
  
  
  
 n = \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**2. Angle Sum = 720°  
  
  
  
 n = \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Find the unknown sides or the angles in the questions below, using the classification of polygons.  
  
1.** The triangle ABC is equilateral and angle A = 60:

**C**

**B**

**A**

**Angle B = \_\_\_\_\_\_60\_\_\_\_\_ ; Angle C = \_\_\_\_\_60\_\_\_\_\_\_**

**2.** The square JKLM is a rhombus and JK = 4 cm:

**M**

**L**

**K**

**J**

**LM = \_\_\_\_\_\_4 cm\_\_\_\_\_ ; Angle K = \_\_\_\_\_90\_\_\_\_\_\_  
  
3.** The parallelogram ABCD has angle A = 80°, angle B = 100°, angle = 80°:

**D**

**C**

**B**

**A**

**Angle D = \_\_\_\_\_\_\_\_\_80\_\_\_\_\_\_\_  
  
4.** An isosceles triangle DEF with angle D = 90°, angle E = 45°:

**Angle F = \_\_\_\_\_\_\_\_45\_\_\_\_\_\_\_\_**

**Match the columns:**

|  |  |
| --- | --- |
|  | **Trapezium** |
|  | **Hexagon** |
|  | **Parallelogram** |
|  | **Right triangle** |
|  | **Isosceles triangle** |
|  | **Rhombus** |
|  | **Pentagon** |
|  | **Rectangle** |

**Find the sum of interior angles for each polygon mentioned:  
  
1. Heptagon 2. Dodecagon**

**\_\_\_\_\_\_\_\_900\_\_\_\_\_\_\_ \_\_\_\_\_\_1800\_\_\_\_\_\_\_\_\_**

**3. Nonagon 4. Pentagon**

**\_\_\_\_\_\_\_1260\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_540\_\_\_\_\_\_\_  
  
  
  
Find the number of sides in each case, given the sum of interior angles:  
  
  
1. Angle Sum = 1620°  
  
  
  
 n = \_\_\_\_\_\_9\_\_\_\_\_\_\_\_**

**2. Angle Sum = 720°  
  
  
  
 n = \_\_\_\_\_\_\_6\_\_\_\_\_\_\_**