Name: _____ Date _____

Topic: *Triangles - Worksheet 1*

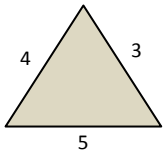
1. In triangle ABC, $\angle A = (x+16)$, $\angle B = (x+8)$ and $\angle C = 50^\circ$. Find the measure of $\angle A$ & $\angle B$.

2. The angles of a triangle are in the ratio of 4:5:6. Find the measure of all angles of the triangle.

3. The vertex angle of an isosceles triangle measures 60°. Find the measure of both base angles.

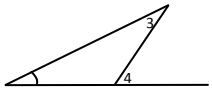
4. In triangle PQR, $\angle P = 40^\circ$ and $\angle Q = 30^\circ$. What type of triangle is triangle PQR?

5.



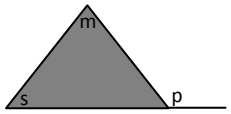
Using Heron's formula, find the area of the triangle, to the nearest tenth.

6.



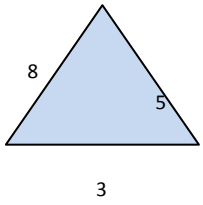
Find the measure of $\angle 3$, if $\angle 1 = 30^\circ$ & $\angle 2 = 50^\circ$ in the given diagram.

7.



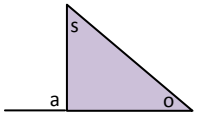
Find the measure of $\angle p$, if $\angle m = 40^\circ$ & $\angle n = 60^\circ$ in the given diagram.

8.



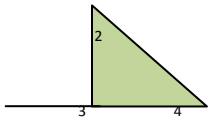
Using Heron's formula, find the area of the triangle, to the nearest tenth.

9.



Find the measure of $\angle a$, if $\angle s = 45^\circ$ & $\angle d = 45^\circ$ in the given diagram.

10.



Find the measure of $\angle 2$, if $\angle 1 = 55^\circ$ & $\angle 3 = 52^\circ$ in the given diagram.

Name: _____ Date _____

Topic: *Triangles - Worksheet 2*

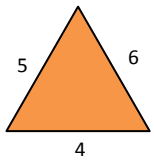
1. In triangle SDF, <S = (x+8), <D = (x+16) and <F = 40°. Find the measure of <S & <D.

2. The angles of a triangle are in the ratio of 7:2:1. Find the measure of all angles of the triangle.

3. The vertex angle of an isosceles triangle measures 80°. Find the measure of both base angles.

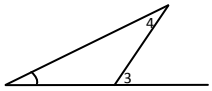
4. In triangle MNO, <M = 30° and <N = 30°. What type of triangle is triangle MNO?

5.



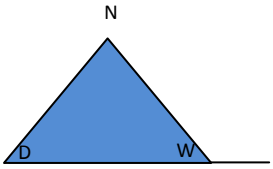
Using Heron's formula, find the area of the triangle, to the nearest tenth.

6.



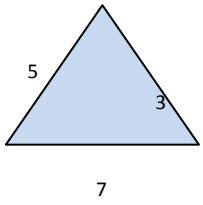
Find the measure of <4, if <3 = 50° & <2 = 70° in the given diagram.

7.



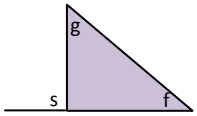
Find the measure of <w, if <n = 40° & <d = 30° in the given diagram.

8.



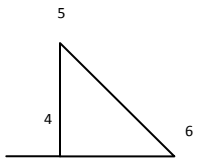
Using Heron's formula, find the area of the triangle, to the nearest tenth.

9.



Find the measure of <s, if <g = 40° & <f = 60° in the given diagram.

10.



Find the measure of <4, if <5 = 50° & <6 = 65° in the given diagram.

Name: _____ Date _____

Topic: *Triangles - Worksheet 3*

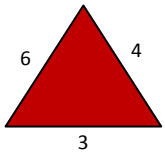
1. In triangle RAT, <R = (x+10), <A = (x+9) and <T = 40°. Find the measure of <S & <D.

2. The angles of a triangle are in the ratio of 6:4:8. Find the measure of all angles of the triangle.

3. The vertex angle of an isosceles triangle measures 40°. Find the measure of both base angles.

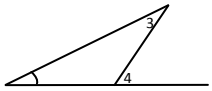
4. In triangle LPG, <L = 32° and <P = 40°. What type of triangle is triangle MNO?

5.



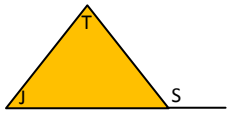
Using Heron's formula, find the area of the triangle, to the nearest tenth.

6.



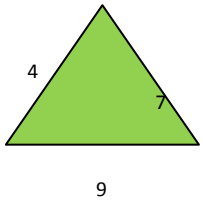
Find the measure of <3, if <4 = 50° & <2 = 70° in the given diagram.

7.



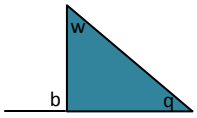
Find the measure of <S, if <t = 35° & <J = 48° in the given diagram.

8.



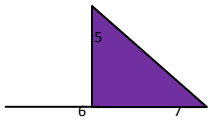
Using Heron's formula, find the area of the triangle, to the nearest tenth.

9.



Find the measure of <b, if <W= 70° & <Q= 60° in the given diagram.

10.



Find the measure of <5, if <6 = 65° & <7 = 80° in the given diagram.

Name: _____ Date _____

Topic: *Triangles - Worksheet 4*

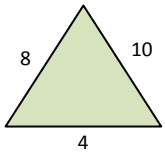
1. In triangle XYZ, <X = (x+5), <Y = (x+9) and <Z = 65°. Find the measure of <X & <Y.

2. The angles of a triangle are in the ratio of 3:5:4. Find the measure of all angles of the triangle.

3. The vertex angle of an isosceles triangle measures 55°. Find the measure of both base angles.

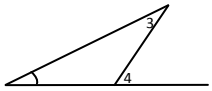
4. In triangle IPL, <I = 30° and <P = 30°. What type of triangle is triangle IPL?

5.



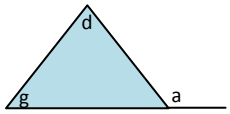
Using Heron's formula, find the area of the triangle, to the nearest tenth.

6.



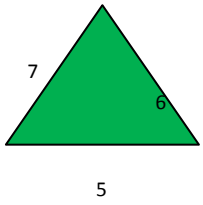
Find the measure of <3, if <4 = 60° & <2 = 60° in the given diagram.

7.



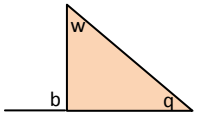
Find the measure of <D, if <G = 63° & <A = 40° in the given diagram.

8.



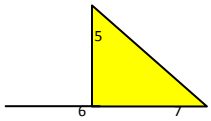
Using Heron's formula, find the area of the triangle, to the nearest tenth.

9.



Find the measure of <b, if <W= 45° & <Q= 60° in the given diagram.

10.



Find the measure of <5, if <6 = 45° & <7 = 80° in the given diagram.

Name: _____ Date _____

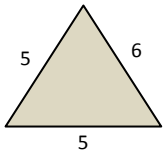
Topic: *Triangles - Worksheet 5*

1. In triangle UVY, <U = (x+6), <V = (x+10) and <Y = 59°. Find the measure of <U & <V.

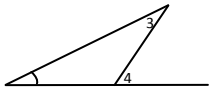
2. The angles of a triangle are in the ratio of 8:2:5. Find the measure of all angles of the triangle.

3. The vertex angle of an isosceles triangle measures 67°. Find the measure of both base angles.

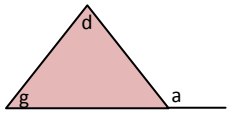
4. In triangle IPL, <I = 60° and <P = 30°. What type of triangle is triangle IPL?

5. 

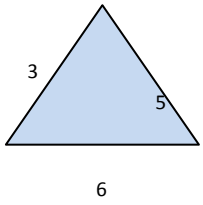
Using Heron's formula, find the area of the triangle, to the nearest tenth.

6. 

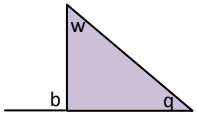
Find the measure of <3, if <4 = 45° & <2 = 50° in the given diagram.

7. 

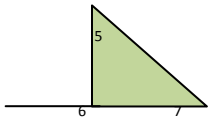
Find the measure of <D, if <G = 40° & <A = 65° in the given diagram.

8. 

Using Heron's formula, find the area of the triangle, to the nearest tenth.

9. 

Find the measure of <b, if <W= 50° & <Q= 35° in the given diagram.

10. 

Find the measure of <5, if <6 = 60° & <7 = 75° in the given diagram.