

Name: _____

Date _____

Topic : Interior and Exterior Angles - Worksheet 1

1. In triangle DEF, $m \angle D = 34^\circ$ and $m \angle F = 48^\circ$. Find the measure of an exterior angle at E.
2. In triangle ABC, $m \angle A = 28^\circ$, and $m \angle C = 52^\circ$. What type of triangle is ABC?
3. In triangle LMN, $m \angle L = 46^\circ$ and $m \angle N = 64^\circ$. Find the measure of an exterior angle at M.
4. The angles of a triangle are in the ratio of 4:6:2. Find the measure of the smallest angle of the triangle.
5. In triangle XYZ, $m \angle X = 27^\circ$, and $m \angle Z = 53^\circ$. What type of triangle is XYZ?
6. The vertex angle of a triangle measures 40° . Find the measure of a base angle.
7. The angles of a triangle are in the ratio of 2:3:4. Find the measure of the smallest angle of the triangle.
8. In triangle PQR, $m \angle P = 42^\circ$ and $m \angle R = 34^\circ$. Find the measure of an exterior angle at Q.
9. In triangle UVW, $m \angle U = 27^\circ$, and $m \angle W = 64^\circ$. What type of triangle is UVW?
10. In GHI, $m \angle G = 25^\circ$ and $m \angle I = 75^\circ$. What is the measure of $\angle H$?



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Topic : Interior and Exterior Angles - Worksheet 2

1. In triangle XYZ, $m \angle X = 38^\circ$ and $m \angle Z = 54^\circ$. Find the measure of an exterior angle at Y.
2. In triangle MNO, $m \angle M = 60^\circ$, and $m \angle O = 60^\circ$. What type of triangle is MNO?
3. In triangle ABC, $m \angle A = 48^\circ$ and $m \angle C = 68^\circ$. Find the measure of an exterior angle at B.
4. The angles of a triangle are in the ratio of 6:5:7. Find the measure of the largest angle of the triangle.
5. In triangle PQR, $m \angle P = 32^\circ$, and $m \angle R = 59^\circ$. What type of triangle is PQR?
6. The vertex angle of a triangle measures 55° . Find the measure of a base angle.
7. The angles of a triangle are in the ratio of 3:5:1. Find the measure of the smallest angle of the triangle.
8. In triangle JKL, $m \angle J = 48^\circ$ and $m \angle L = 32^\circ$. Find the measure of an exterior angle at K.
9. In triangle RST, $m \angle R = 35^\circ$, and $m \angle T = 72^\circ$. What type of triangle is RST?
10. In UVW, $m \angle U = 30^\circ$ and $m \angle W = 65^\circ$. What is the measure of $\angle V$?



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Topic : Interior and Exterior Angles - Worksheet 3

1. In triangle LMN, $m \angle L = 37^\circ$ and $m \angle N = 63^\circ$. Find the measure of an exterior angle at M.
2. In triangle RST, $m \angle S = 90^\circ$. What type of triangle is RST?
3. In triangle XYZ, $m \angle X = 47^\circ$ and $m \angle Z = 65^\circ$. Find the measure of an exterior angle at Y.
4. The angles of a triangle are in the ratio of 4:3:5. Find the measure of the smallest angle of the triangle.
5. In triangle ABC, $m \angle A = 25^\circ$, and $m \angle C = 60^\circ$. What type of triangle is ABC?
6. The vertex angle of a triangle measures 58° . Find the measure of a base angle.
7. The angles of a triangle are in the ratio of 3:1:2. Find the measure of the largest angle of the triangle.
8. In triangle DEF, $m \angle D = 46^\circ$ and $m \angle F = 36^\circ$. Find the measure of an exterior angle at E.
9. In triangle UVW, $m \angle U = 39^\circ$, and $m \angle W = 76^\circ$. What type of triangle is UVW?
10. In MNO, $m \angle M = 35^\circ$ and $m \angle N = 80^\circ$. What is the measure of $\angle O$?



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Topic : Interior and Exterior Angles - Worksheet 4

1. In triangle PQR, $m \angle P = 41^\circ$ and $m \angle R = 69^\circ$. Find the measure of an exterior angle at Q.
2. In triangle UVW, $m \angle U = 36^\circ$, and $m \angle W = 78^\circ$. What type of triangle is UVW?
3. In triangle JKL, $m \angle J = 49^\circ$ and $m \angle L = 67^\circ$. Find the measure of an exterior angle at K.
4. The angles of a triangle are in the ratio of 7:3:5. Find the measure of the smallest angle of the triangle.
5. In triangle ABC, $m \angle B = 90^\circ$. What type of triangle is ABC?
6. The vertex angle of a triangle measures 62° . Find the measure of a base angle.
7. The angles of a triangle are in the ratio of 5:2:3. Find the measure of the smallest angle of the triangle.
8. In triangle LMN, $m \angle L = 48^\circ$ and $m \angle N = 40^\circ$. Find the measure of an exterior angle at M.
9. In triangle XYZ, $m \angle X = 60^\circ$, and $m \angle Z = 60^\circ$. What type of triangle is XYZ?
10. In ABC, $m \angle A = 32^\circ$ and $m \angle C = 72^\circ$. What is the measure of $\angle B$?



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Topic : Interior and Exterior Angles - Worksheet 5

1. In triangle JKL, $m \angle J = 43^\circ$ and $m \angle L = 75^\circ$. Find the measure of an exterior angle at K.
2. In triangle STU, $m \angle S = 27^\circ$, and $m \angle U = 62^\circ$. What type of triangle is STU?
3. In triangle GHI, $m \angle G = 45^\circ$ and $m \angle I = 65^\circ$. Find the measure of an exterior angle at H.
4. The angles of a triangle are in the ratio of 1:6:2. Find the measure of the smallest angle of the triangle.
5. In triangle MNO, $m \angle M = 37^\circ$, and $m \angle O = 69^\circ$. What type of triangle is MNO?
6. The vertex angle of a triangle measures 66° . Find the measure of a base angle.
7. The angles of a triangle are in the ratio of 4:7:9. Find the measure of the largest angle of the triangle.
8. In triangle ABC, $m \angle A = 49^\circ$ and $m \angle C = 31^\circ$. Find the measure of an exterior angle at B.
9. In triangle DEF, $m \angle D = 43^\circ$, and $m \angle F = 37^\circ$. What type of triangle is DEF?
10. In UVW, $m \angle U = 29^\circ$ and $m \angle W = 81^\circ$. What is the measure of $\angle V$?

