

Name: \_\_\_\_\_

Grade: \_\_\_\_\_

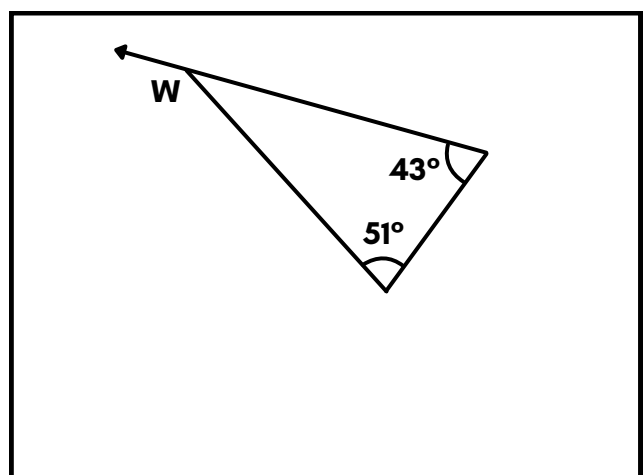
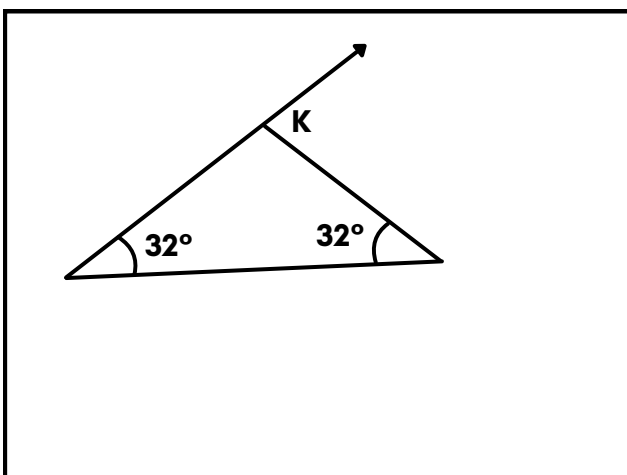
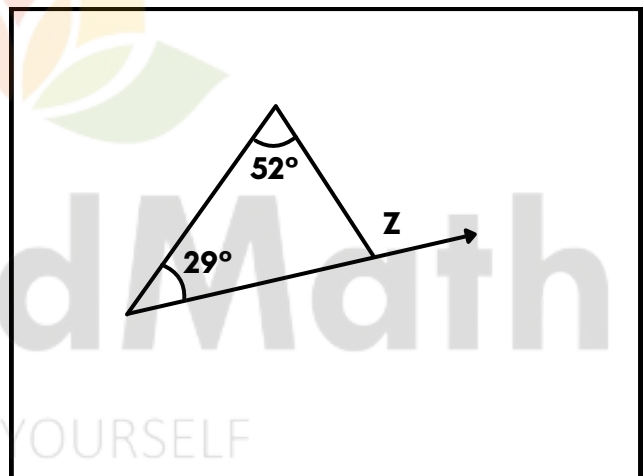
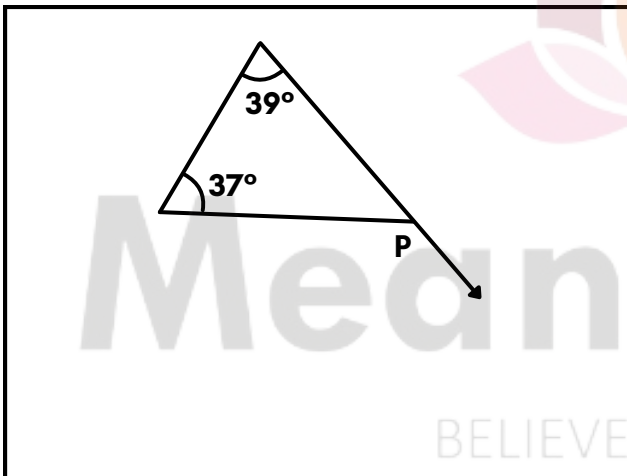
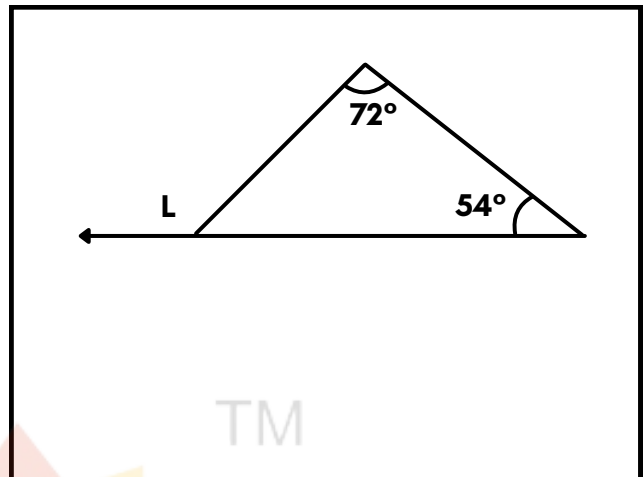
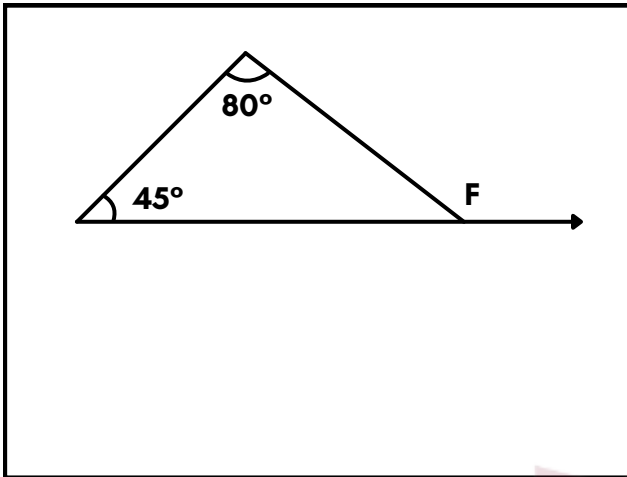
Score: \_\_\_\_\_

## Worksheet #1

**EXTERIOR ANGLE OF A TRIANGLE**

**Learning goal:** Students will be able to apply the exterior angle property of triangles to find unknown angles when two angles are given.

**Instruction:** Find the measure of indicated angle in each triangle



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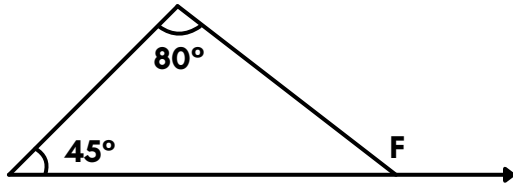
## Worksheet #1(Answers)



## EXTERIOR ANGLE OF A TRIANGLE

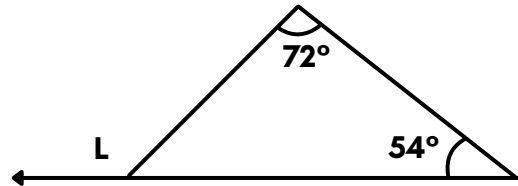
**Learning goal:** Students will be able to apply the exterior angle property of triangles to find unknown angles when two angles are given.

**Instruction:** Find the measure of indicated angle in each triangle



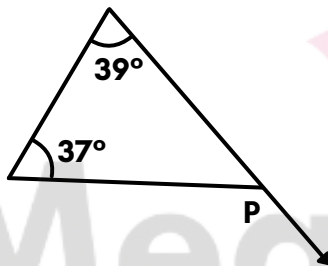
$$180^\circ - (80^\circ + 45^\circ) = 180^\circ - 125^\circ = 55^\circ$$

$$m\angle F = 55^\circ$$



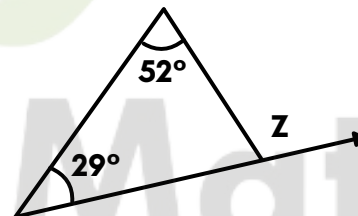
$$180^\circ - (72^\circ + 54^\circ) = 180^\circ - 126^\circ = 54^\circ$$

$$m\angle L = 54^\circ$$



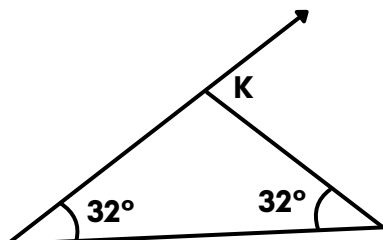
$$180^\circ - (39^\circ + 67^\circ) = 180^\circ - 106^\circ = 74^\circ$$

$$m\angle P = 74^\circ$$



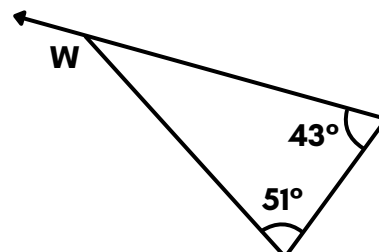
$$180^\circ - (52^\circ + 29^\circ) = 180^\circ - 81^\circ = 99^\circ$$

$$m\angle Z = 99^\circ$$



$$180^\circ - (32^\circ + 32^\circ) = 180^\circ - 64^\circ = 116^\circ$$

$$m\angle K = 116^\circ$$



$$180^\circ - (43^\circ + 51^\circ) = 180^\circ - 94^\circ = 86^\circ$$

$$m\angle W = 86^\circ$$