Subtopic: ANGLE SUM PROPERTY OF A TRIANGLE

Section 1

1.	Mark T for True and F for False
	1a. The total measure of the 3 angles of a triangle is 360°.
	1b. A triangle can have all three angles as 60°.
2.	Choose the correct answer.
	2a. If two angles of a triangle are 30° and 80° , the third angle is ,
	a)60°
	b)70°
	c)75º
	d)150°
	2b. If one of the angles of a triangle is 80° and the other two angles are equal, then the angle is ,
	a)60°
	b)45°
	c)75 ⁰
	d)50°
3. Fill in	n the blanks
	3a. In a right-angle triangle, the sum of the non-right angles is always
	3b. If two angles of a triangle are 52° and 44° then the third angle should be



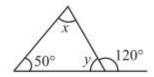
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4. Solve for x in the table below.

Figure	Find x
B 50° 60° C	1)
P 30° Q	2)
X 30° Y Z	3
(d)	4)
e) (v)	5)

Section 2

5. Find the value of the unknowns x and y in the given diagram.



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6. Using exterior angle property, to prove the angle sum property.

7.	Can you have a triangle with two obtuse angles? Explain.
8.	If the angles of a triangle are 49° and 55° find the third angle.



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9. Can you have a triangle with all three angles greater than 60°? Justify.

10. The three angles of a triangle are in the ratio 1:2:1. Find all the angles of the triangle.

