

19.02.24

Number Nest Weekly Challenge



Warm up

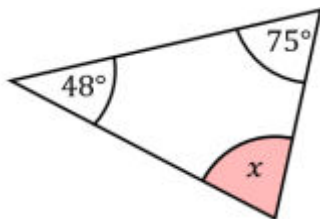
- a) The 2nd multiple of 5 **10**
- b) The missing multiple of 3: 3, 6, 9, **12**, 15, 18
- c) The sum of the first five multiples of 7 **105**
- d) The smallest factor of 20 **1**
- e) The prime number closest to 20 **19**
- f) The sum of all the factors of 15 **24**
- g) The smallest prime number greater than 30 **31**

Activity

Fill in the blanks to complete the sentences about angles.

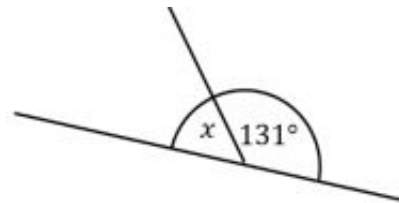
Angles on a straight line add up to _____ degrees.
Angles in a triangle add up to _____ degrees.
Angles at a point add up to _____ degrees.
Opposite angles are _____.

Find the missing angles.



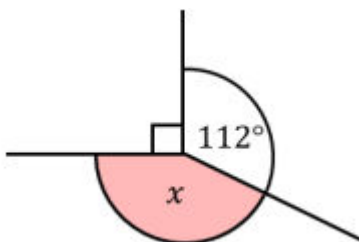
a)

$x = 57^\circ$



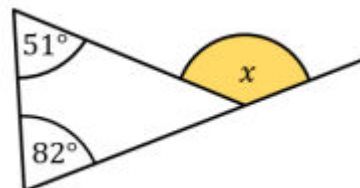
b)

$x = 49^\circ$



c)

$x = 158^\circ$

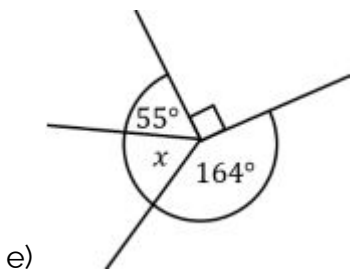


d)

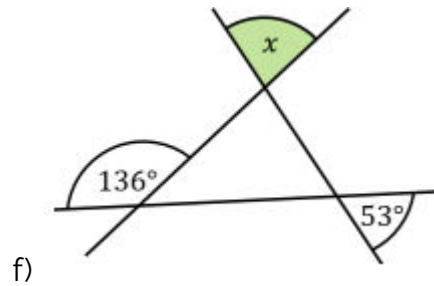
$x = 133^\circ$



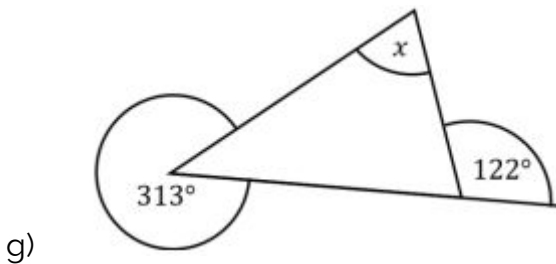
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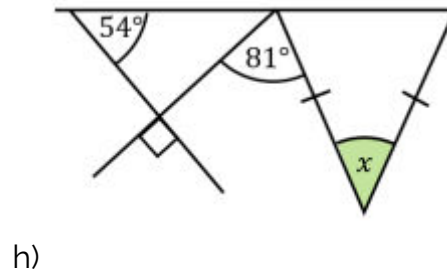
$x = 51^\circ$



$x = 83^\circ$



$x = 75^\circ$



$x = 54^\circ$

Challenge

Can you solve the puzzles below? Each puzzle must contain the digits 1 to 9 so that all the equations are true. Some digits have already been filled in for you.

5	×	2	+	3	13
+		+		+	
1	×	8	+	9	17
+		÷		+	
7	+	4	-	6	5
13		4		18	

5	×	4	+	9	29
+		×		-	
6	-	7	+	1	0
÷		-		+	
2	+	3	×	8	26
8		25		16	