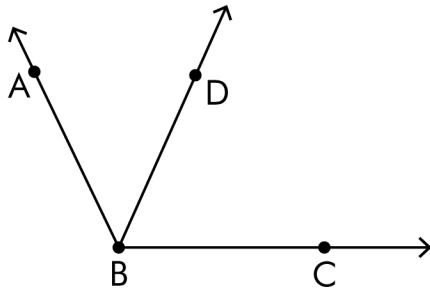
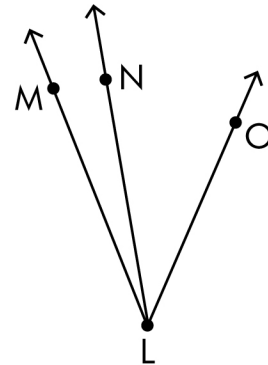


- 1 If  $m\angle ABD = 56^\circ$  and  $m\angle DBC = 60^\circ$ , find  $m\angle ABC$



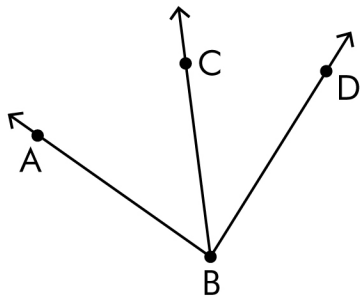
$m\angle ABC = \text{-----}$

- 2 If  $m\angle MLN = 15^\circ$  and  $m\angle NLO = 28^\circ$ , find  $m\angle MLO$



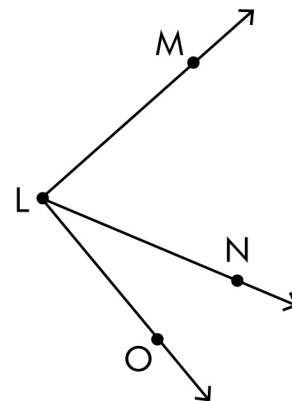
$m\angle MLO = \text{-----}$

- 3 If  $m\angle ABD = 90^\circ$ ,  $m\angle ABC = 5x - 6$ , and  $m\angle CBD = 3x$ , find  $m\angle ABC$



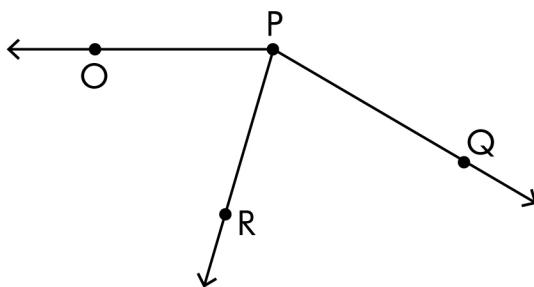
$m\angle ABC = \text{-----}$

- 4 If  $m\angle MLO = 91^\circ$  and  $m\angle NLO = 20^\circ$ , find  $m\angle MLN$



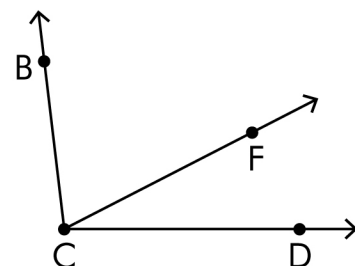
$m\angle MLN = \text{-----}$

- 5 If  $m\angle OPQ = 158^\circ$ ,  $m\angle OPR = 9x + 16$  and  $m\angle RPQ = 7x - 2$ , find  $m\angle OPR$



$m\angle OPR = \text{-----}$

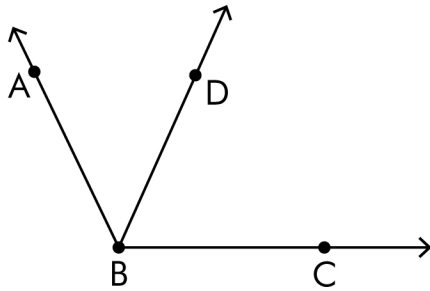
- 6 If  $m\angle FCD = x + 41$ ,  $m\angle BCF = x + 78$  and  $m\angle BCD = 95^\circ$ , find  $x$



$x = \text{-----}$

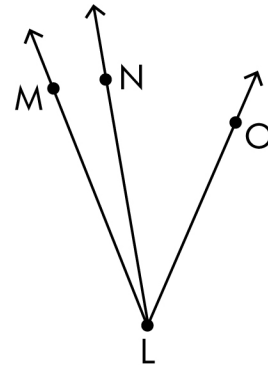
## Answers

- 1 If  $m\angle ABD = 56^\circ$  and  $m\angle DBC = 60^\circ$ , find  $m\angle ABC$



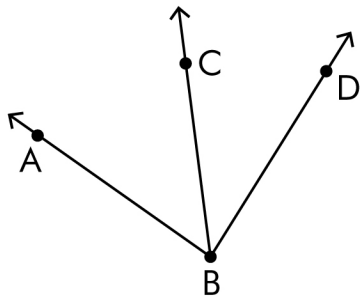
$$m\angle ABC = \underline{\underline{116^\circ}}$$

- 2 If  $m\angle MLN = 15^\circ$  and  $m\angle NLO = 28^\circ$ , find  $m\angle MLO$



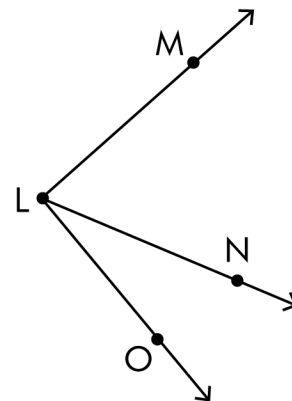
$$m\angle MLO = \underline{\underline{43^\circ}}$$

- 3 If  $m\angle ABD = 90^\circ$ ,  $m\angle ABC = 5x - 6$ , and  $m\angle CBD = 3x$ , find  $m\angle ABC$



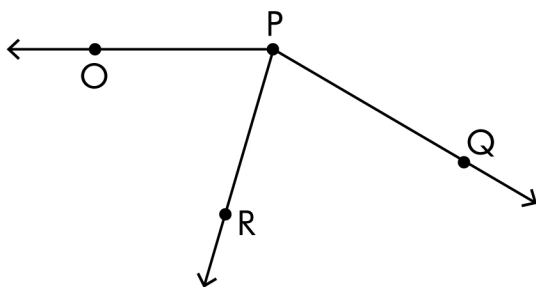
$$m\angle ABC = \underline{\underline{54^\circ}}$$

- 4 If  $m\angle MLO = 91^\circ$  and  $m\angle NLO = 20^\circ$ , find  $m\angle MLN$



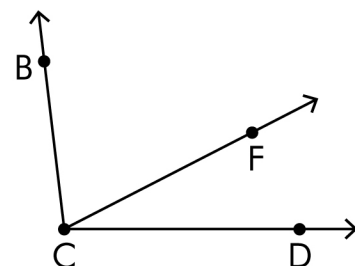
$$m\angle MLN = \underline{\underline{71^\circ}}$$

- 5 If  $m\angle OPQ = 158^\circ$ ,  $m\angle OPR = 9x + 16$  and  $m\angle RPQ = 7x - 2$ , find  $m\angle OPR$



$$m\angle OPR = \underline{\underline{97^\circ}}$$

- 6 If  $m\angle FCD = x + 41$ ,  $m\angle BCF = x + 78$  and  $m\angle BCD = 95^\circ$ , find  $x$



$$x = \underline{\underline{-12^\circ}}$$