

Notes on Angles Relationships

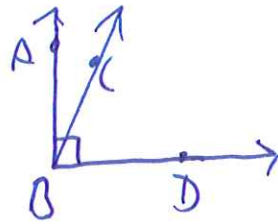
Name: Key

7th Grade Math

Complementary Angles-

1 pair of \sphericalangle s that add up to 90°

$$\sphericalangle ABC + \sphericalangle CBD = 90^\circ$$

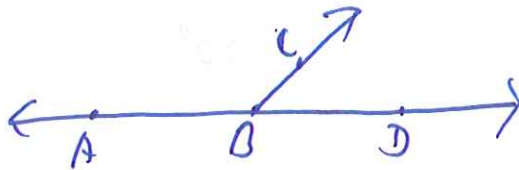


Supplementary Angles-

1 pair of \sphericalangle s that add up to 180°

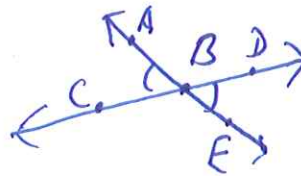
$$\sphericalangle ABC + \sphericalangle CBD = 180^\circ$$

also known as a linear pair.



Vertical Angles-

1 pair of \sphericalangle s that share a vertex that are "back to back" and are equal in measure.

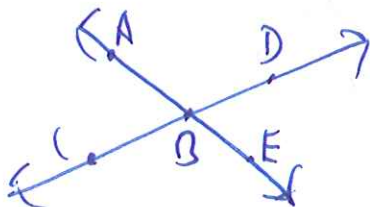


$\sphericalangle ABC$ is vertical to $\sphericalangle DBE$.

Adjacent Angle-

\sphericalangle s that are next to each other.

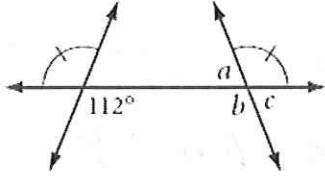
$\sphericalangle ABD$ is adjacent to $\sphericalangle ABC$



Finding Missing Angles

For the following problems find the measure of all the missing angles

1.

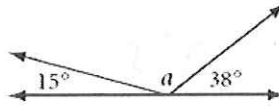


$$a = \underline{68^\circ}$$

$$b = \underline{112^\circ}$$

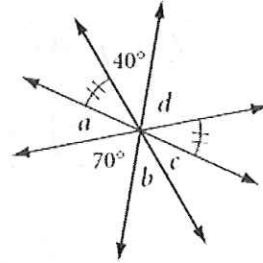
$$c = \underline{68^\circ}$$

2.



$$a = \underline{127^\circ}$$

3.



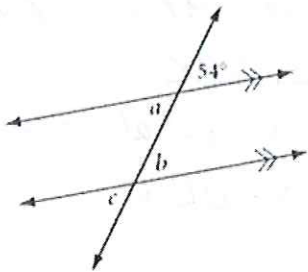
$$a = \underline{35^\circ}$$

$$b = \underline{40^\circ}$$

$$c = \underline{35^\circ}$$

$$d = \underline{70^\circ}$$

4.

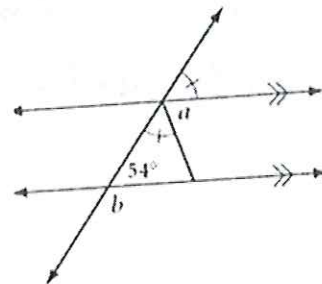


$$a = \underline{54^\circ}$$

$$b = \underline{54^\circ}$$

$$c = \underline{54^\circ}$$

5.



$$a = \underline{72^\circ}$$

$$b = \underline{126^\circ}$$