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TWO VERTICAL ANGLES

Question 1: Angle xOy is vertically opposite to angle x'Oy' when:

A. Ray Ox' is the opposite ray of ray Ox and Oy is the opposite ray of ray Oy'.

B. Ray Ox' is the opposite ray of Ox and angle yOy' = 180^0

C. Ray Ox' is the opposite ray of Oy and Oy' is the opposite ray of Ox.

D. Both A, B, C are correct.

Question 2: Choose the wrong answer: Two lines aa'; bb' intersect at O and <aOb = 60^0. We have:

A. $\widehat{a'Ob'} = 60^0$

B. $\widehat{aOb'} = 120^0$

C. $\widehat{a'Ob'} = 120^0$

D. $\widehat{a'Ob} = 2\widehat{aOb}$

Question 3: Choose the correct statement

A. Two intersecting lines form two pairs of vertical angles

B. Three intersecting lines form three pairs of vertical angles

C. Four intersecting lines form four pairs of vertical angles

D. Both A, B, C are correct

Question 4: The bisectors ray of two opposite angles are:

A. coincident B. Perpendicular. C. opposite. D. parallel.

Question 5.: Given angle xBy vertically opposite to angle x'By' and $\angle xBy = 60^0$. Calculate the measurement of angle x'By'

A. 30^0 B. 120^0 C. 90^0 D. 60^0

Question 6: Two lines zz' and tt' intersect at A. The angle opposite to $\angle zAt$ is:

A. $\widehat{z'At'}$

B. $\widehat{z'At}$

C. $\widehat{zAt'}$

D. $\widehat{zAt}$

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Question 7: Let two lines xx' and yy' intersect at O such that $\angle xOy = 45°$. Choose the wrong sentence:

A. $\widehat{x'Oy} = 135^0$

B. $\widehat{x'Oy'} = 45^0$

C. $\widehat{xOy'} = 135^0$

D. $\widehat{x'Oy'} = 135^0$

Question 8: Given a pair of vertical angles $\angle tOz$ and $\angle t'Oz'$ (Oz and Oz' are opposite rays). Knowing that $\angle tOz' = 4\angle tOz$. Calculate the measurement of angles tOz and t'Oz'.

A. $\widehat{zOt} = \widehat{z'Ot'} = 72^0$

B. $\widehat{zOt} = \widehat{z'Ot'} = 30^0$

C. $\widehat{zOt} = \widehat{z'Ot'} = 36^0$

D. $\widehat{zOt} = 72^0$; $\widehat{z'Ot'} = 36^0$

Question 9: Draw $\angle ABC = 56^0$. Draw $\angle ABC'$ such that $\angle ABC'$ and $\angle ABC$ are linear pair. . Then draw $\angle C'BA'$ such that $\angle C'BA'$ and $\angle ABC$ are linear pair . Calculate the measurement of $\angle C'BA'$

A. 124^0 B. 142^0 C. 65^0 D. 56^0

Question 10: Which of the following statements is incorrect?

A. Two angles where each side of one angle is the opposite ray of each side of the other angle are called vertical angles.

B. Two vertical angles are congruent .

C. If two angles are equal, they are vertical angles.

D. If the measurement of angle A is equal to the measurement of angle B and angle C is vertically opposite to angle B, then angle A and angle C are congruent.

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