ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

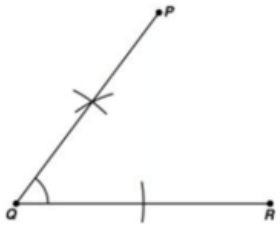
Sub: Algebra and Geometry **Class: 7** **Date: 15.06.20**

Duration: 40 min **Worksheet Solution 32** **Full Marks: 15**

BASIC CONSTRUCTIONS

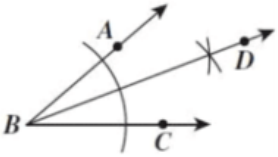
Choose the Correct options:

1. Duplicating an angle can be accomplished using a compass and a ruler. An example of duplicating Angle PQR is shown below. How many of the construction marks were made using a compass?



   A. 4
   B. 5
   C. 2
   D. 3

2. Amber constructed the ray BD as shown. Which of the following statements must be true?

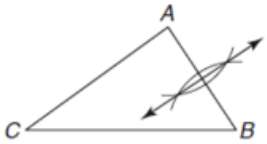


   A. BD= 2BA
   B. m∠CBD= 2 m∠ABC
   C. BA=BC
   D. m∠ABD = m∠CBD

3. The drawing shows the arcs used to construct

   A. a bisector of a given line
   B. A bisector of a given angle
   C. A perpendicular of a given line at a point on the line
   D. An angle congruent to a given angle

4. What line is constructed in the figure below?



   A. a line through C perpendicular to AB
   B. the perpendicular bisector of AB
   C. the bisector of ∠C
   D. a segment congruent to AB

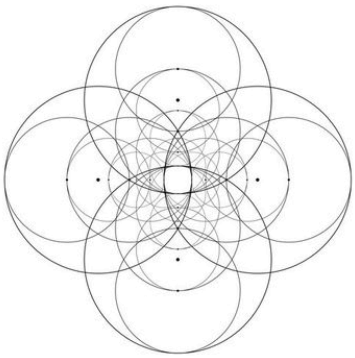
5. What is being constructed in the figure?

   A. the perpendicular bisector of AB
   B. the line perpendicular to AB through C
   C. the line that bisects ∠C
   D. a line of symmetry for ΔABC

6. What is this?

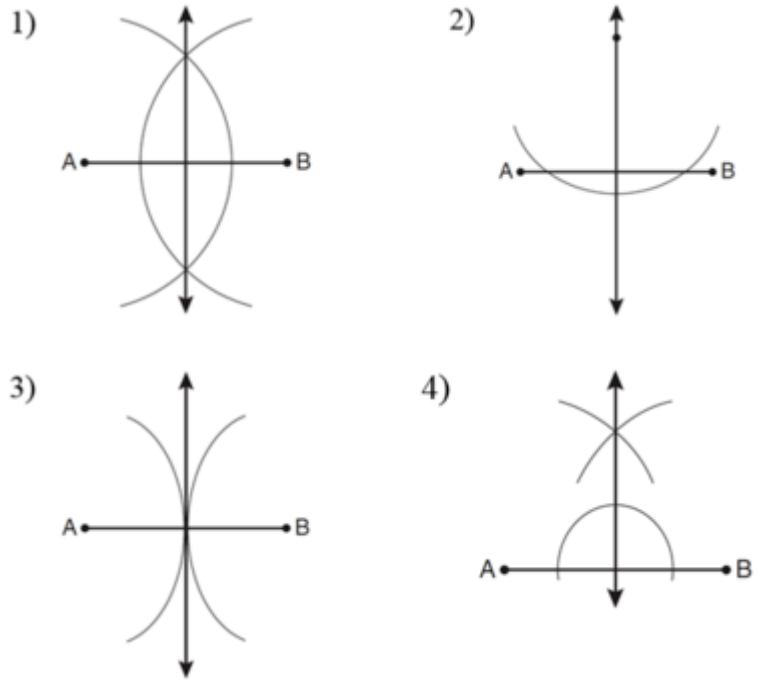
A. Compass
B. Circle creator
C. Pencil swingy-thing
D. Arc maker

7. A compass is used to create geometric shapes and drawings. What are these drawings called?



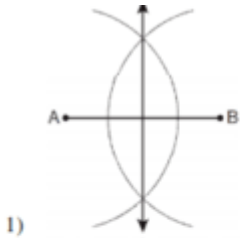
A. Constructions
B. Accurate drawings
C. Geometric sketches
D. Cool shapes

8. Which one is the correct construction for a perpendicular bisector?

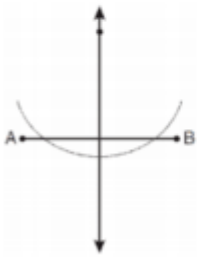


A. 1
B. 2
C. 3
D. 4

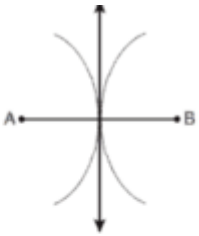
9. Which diagram shows the construction of the perpendicular bisector of AB?



1)



2)

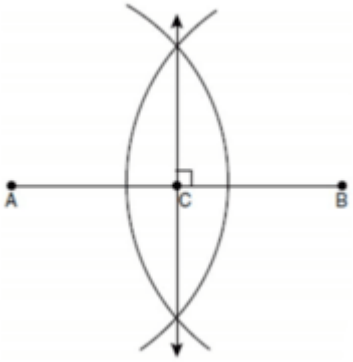


3)

4)

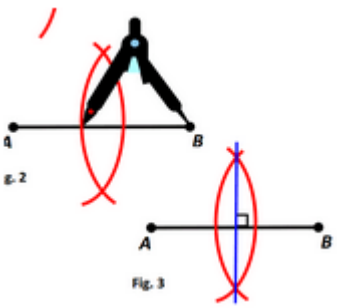
A. **1**
B. 2
C. 3
D. 4

10. The diagram below shows the perpendicular bisector of AB. Which statement is not true?



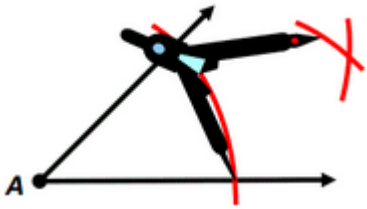
A. AC = CB
B. CB = ½ AB
C. AC = 2 AB
D. AC + CB = AB

11. Name the construction.



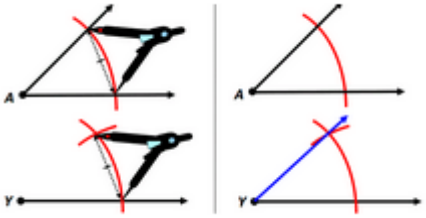
A. Angle bisector
B. Perpendicular line to a point not on a line
C. Perpendicular line to a point on the line
D. Perpendicular bisector of a line segment

12. Name the construction.



A. Angle bisector
B. Perpendicular line to a point not on a line
C. Angle median
D. Perpendicular bisector of a line segment

13. Name the construction.



A. Angle bisector
B. Di-sect an angle
C. Copy an angle
D. Vertical angles

14. What was duplicated?

A. line
B. line segment
C. ray
D. angle

15. What type of construction do you see?

A. midpoint
B. angle bisector
C. perpendicular bisector
D. altitude