MATHS

BOOKS RD SHARMA MATHS (ENGLISH)

BASIC GEOMETRICAL TOOLS

All Questions

1. Mark two points, A and B on a piece of paper and join them. Measure this length. For each of the following draw a line segment CD

that is: equal to the segment AB (ii) Twice AB Three times AB (iv) half AB collinear with AB and is equal to it.

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2. The end-point P of a line-segment PQ is against 4cm mark and the end-point Q is against the mark indicating 14.8 cm on a ruler. What is the length of the segment PQ?

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3. Draw a line segment CD . Produce it to CE such that $CE = 3CD$

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4. If $AB = 7.5cm \text{ and } CD = 2.5cm$, construct a segment whose length is equal to

(i) $AB - CD$ (ii) $2AB$ (iii) $3CD$ (iii)$AB + CD$

(v) $2AB + 3CD$

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5. Fill in the blanks: (i) A part of a line with two end-points is called a ..... Segment (ii) AB is ..... segment BA. (iii) The length of a line segment is the ..... distance between two end points. (iv) Two segments are concurrent only if they have ..... (v) Two segments of the same length are said to be .....

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6. Match the following statements: Column A Column B (i) Line segment has (a) at a point

(ii) Two segments may intersect (b) if they have equal lengths (iii) Two segments are congruent (c) two end-points (iv) Line segment is (d) portion of a line

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7. Tell which of the following statements are true (T) and which are false (F): (i) The intersection of two segments may be segment. (ii) Two segments may intersect at a point which is not any end-point of either segments

containing it. (iii) Every ray is a segment. (iv) Every segment is a ray.

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8. What is the difference between a line, a line segment and a ray?

A. a line has no starting & end point, a line segment has two end points and a ray has one end point

B. a line has no starting & end point, a line segment has two end points and a ray has two end point

C. a line has one end point, a line segment has two end points and a ray has two end point

D. a line has no starting & end point, a line segment has one end points and a ray has one end point

Answer: A

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9. How many rays are represented in Figure? Name them.

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