MATHS

BOOKS - NAGEEN MATHS (HINGLISH)

CONSTRUCTIONS

Example Solution

1. Draw a line segment $6.0 cm$ long and draw its perpendicular bisector.

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2. To construct an angle of $60°$ at the initial point of a given ray.

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3. Draw an angle of $60°$. Draw its bisector.

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4. Construct a $\triangle ABC$ in which $AB = 4cm$, $BC = 5.2cm$ and $CA = 4.5cm$.

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5. Construct a $\triangle ABC$ in which $AB = 5cm$, $AC = 4.5cm$ and $\angle A = 60°$.

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6. Construct a $\triangle ABC$ in which $BC = 5cm$, $\angle B = 60°$ and $\angle C = 45°$.

7. Construct a right-angled triangle ABC in which $\angle A = 90°$, $BC = 6cm$ and $AB = 4.8cm$.

8. Construct an isosceles triangle whose base is $6cm$ and altitude is $4cm$.

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9. Construct an isosceles triangle whose vertical angle is $60°$ and the altitude is $4.6cm$.

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10. Construct a $\triangle ABC$ in which $AB = 5cm, AC + BC = 8cm$ and $\angle B = 60°$.

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11. Construct a $\triangle ABC$ in which base $BC = 5.2cm$, $\angle ABC = 50°$ and $AB - AC = 2cm$.

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12. Construct $\triangle ABC$ in which $BC = 5.2cm$, $\angle B = 50°$ and $AC - AB = 2cm$.

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13. Construct a $\triangle ABC$ whose perimeter is $10.5cm$ and the base angles are $60°$ and $45°$.

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14. Construct a $\triangle ABC$ in which $AB = 4cm$, $AC = 5cm$ and the altitude from A to BC is $2.5cm$.

15. Construct a $\triangle ABC$ whose perimeter is $14cm$ and sides are in the ratio $2:3:4$.

16. Construct a $\triangle ABC$ in which $BC = 8cm$, $\angle B = 45°$ and $AB - AC = 3.5cm$.

17. Construct a $\triangle ABC$ in which $QR = 6cm$, $\angle Q = 60°$ and $PR - PQ = 2cm$.

18. Construct a right angled triangle whose base is $12 cm$ and sum of its hypotenuse and other side is $18 cm$.

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19. An equilateral triangle if its altitude is $3.2 cm$.

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