



MATHS

BOOKS - RD SHARMA MATHS (ENGLISH)

CONSTRUCTIONS

Others

1. Draw an $\angle BAC$ of measure 50° such that $AB = 5\text{ cm}$ and $AC = 7\text{ cm}$. Through C

draw a line parallel to AB and through B

draw a line parallel to AC , intersecting each

other at D . Measure BD and CD .



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2. Draw a line PQ . Draw another line parallel

to PQ at a distance of 3 cm from it.



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3. Take any three non-collinear points A, B, C and draw ABC . Through each vertex of the triangle, draw a line parallel to the opposite side.



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4. Draw two parallel lines at a distance 5 cm apart.



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5. Construct a triangle ABC if the lengths of its sides are given by

$AB = 6 \text{ cm}$, $BC = 7 \text{ cm}$ and $AC = 5 \text{ cm}$.



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6. Draw ABC in which

$AB = 4.5 \text{ cm}$, $BC = 5 \text{ cm}$ and $CA = 6 \text{ cm}$.

Also, draw the perpendicular bisector of BC .



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7. Draw ABC in which $AB = 5 \text{ cm}$.
 $BC = 6 \text{ cm}$ and $CA = 7 \text{ cm}$. Also, draw
perpendicular bisector of side BC .



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8. Draw PQR in which $PQ = 3 \text{ cm}$,
 $QR = 4 \text{ cm}$ and $RP = 5 \text{ cm}$. Also, draw the
bisector of $\angle Q$.



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9. Draw an equilateral triangle one of whose sides is of length 7 cm .



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10. Draw a triangle whose sides are of lengths 4 cm , 5 cm and 7 cm . Draw the perpendicular bisector of the largest side.



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11. Draw a triangle ABC with $AB = 6\text{ cm}$, $BC = 7\text{ cm}$ and $CA = 8\text{ cm}$. Using ruler and compass alone, draw (i) the bisector AD of $\angle A$ and (ii) perpendicular AL from A on BC . Measure LAD .



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12. Draw DEF such that $DE = DF = 4\text{ cm}$ and $EF = 6\text{ cm}$. Measure $\angle E$ and $\angle F$.



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13. Draw any triangle ABC . Bisect side AB at D . Through D , draw a line parallel to BC , meeting AC in E . Measure AE and EC .



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14. Construct ABC in which $\angle B = 60^\circ$, $AB = 5\text{cm}$ and $BC = 6\text{cm}$.



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15. Draw a triangle ABC with $BC = 3.2 \text{ cm}$, $AB = 3.6 \text{ cm}$ and $\angle B = 120^\circ$. Also draw a perpendicular from A on BC .



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16. Draw ABC in which $AB = 3 \text{ cm}$, $BC = 5 \text{ cm}$ and $\angle B = 70^\circ$.



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17. Draw $\triangle ABC$ in which $\angle A = 70^\circ$,
 $AB = 4 \text{ cm}$ and $AC = 6 \text{ cm}$. Measure BC .



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18. Draw an isosceles triangle in which each of the equal sides is of length 3 cm and the angle between them is 45° .



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19. Draw ABC in which $\angle A = 120^0$, $AB = AC = 3cm$. Measure $\angle B$ and $\angle C$.



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20. Draw ABC in which $\angle C = 90^0$ and $AC = BC = 4 cm$.



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21. Draw a triangle ABC in which $BC = 4\text{ cm}$, $AB = 3\text{ cm}$ and $\angle B = 45^\circ$.

Also, draw a perpendicular from A on BC .



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22. Draw a triangle ABC with $AB = 3\text{ cm}$, $BC = 4\text{ cm}$ and $\angle B = 60^\circ$. Also, draw the bisector of angles C and A of the triangle, meeting in a point O . Measure $\angle COA$.



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23. draw ABC in which

$BC = 6 \text{ cm}$, $\angle B = 35^\circ$ and $\angle C = 100^\circ$.

Measure $\angle A$.



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24. Draw a triangle ABC in which

$BC = 5.2 \text{ cm}$, $\angle B = 60^\circ$ and $\angle A = 100^\circ$.



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25. Construct ABC in which

$BC = 4 \text{ cm}$, $\angle B = 50^\circ$ and $\angle C = 70^\circ$.



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26. Draw ABC in which

$BC = 8 \text{ cm}$, $\angle B = 50^\circ$ and $\angle A = 50^\circ$.



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27. Draw PQR in which $\angle Q = 80^\circ$, $\angle R = 55^\circ$

and $QR = 4.5 \text{ cm}$. Draw the perpendicular

bisector of side QR .



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28. Construct ABC in which
 $AB = 6.4 \text{ cm}$, $\angle A = 45^0$ and $\angle B = 60^0$.



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29. Draw ABC in which
 $AC = 6 \text{ cm}$, $\angle A = 90^0$ and $\angle B = 60^0$.



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30. Draw triangle ABC with $\angle C$ a right angle, $AB = 6.2 \text{ cm}$ and $BC = 4.5 \text{ cm}$.



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31. Draw a right triangle having hypotenuse of length 5.4 cm , and one of the acute angles of measure 60° .



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32. Draw a right triangle with hypotenuse of length 5 cm and one side of length 4 cm .



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33. Draw a right triangle whose hypotenuse is of length 4 cm and one side is of length 2.5 cm .



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34. Draw a right triangle having hypotenuse of length 5.4 cm , and one of the acute angles of measure 30° .



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35. Construct a right triangle ABC in which $AB = 5.8\text{ cm}$, $BC = 4.5\text{ cm}$ and $\angle C = 90^{\circ}$.



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36. Construct a right triangle, right angled at C in which $AB = 5.2\text{ cm}$ and $BC = 4.6\text{ cm}$.



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