MATHS

BOOKS - RD SHARMA MATHS (ENGLISH)

PRACTICAL GEOMETRY (CONSTRUCTIONS)

Others

1. Construct a quadrilateral $ABCD$ in which $AB = 4.4cm, BC = 4cm, CD = 6.4cm, DA = 2.8cm$ and $BD = 6.6cm$

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2. Construct a parallelogram $ABCD$ where $AB = 3.6cm,\ BC = 4.2cm\ and\ AC = 6.5cm.$

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3. Construct a rhombus with side 4.5cm and one diagonal 6cm.

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4. Construct a quadrilateral $ABCD$ in which $AB = 4.4\,cm,\ BC = 4cm,\ CD = 6.4cm,\ DA = 3.8cm\ and\ BD = 6.6c$

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5. Construct a quadrilateral $ABCD$ such that $AB = BC = 5.5cm,\ CD = 4cm,\ DA = 6.3cm\ and\ AC = 9.4cm.$

Measure $BD.$

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6. Construct a kit $ABCD$ in which $AB = 4cm,\ BC = 4.\ 9cm\ and\ AC = 7.\ 2cm.$

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7. Construct, if possible, a quadrilateral $ABCD$ given $AB = 6cm,\ BC = 3.\ 7cm,\ CD = 5.\ 7cm,\ AD = 5.\ 5cm\ and\ BD = 6.\ 1cm$

Give reasons for not being able to construct it, if you cannot.

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8. Construct, if possible, a quadrilateral $ABCD$ in which $AB = 6cm,\ BC = 7cm,\ CD = 3cm,\ AD = 5.\ 5cm\ and\ AC = 11cm.$

Give reasons for not being able to construct, if you cannot.

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9. Construct a quadrilateral in which $AB = 5.4cm, BC = 2.5cm, CD = 4cm, AC = 6.5cm$ and $BD = 5cm$

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10. Construct a quadrilateral $ABCD$ in which $AB = 3.8cm,\ BC = 3.0cm,\ AD = 2.3cm,\ AC = 4.5cm\ and\ BD = 3.$

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11. Construct a quadrilateral $ABCD$ in which . A B = $7.5cm,\ AC = AD = 6cm,\ CD = 5cm\ and\ BD = 10cm.$

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12. Construct a quadrilateral $ABCD$, when $AB = 3cm,\ CD = 3cm,\ DA = 7.5cm,\ AC = 8cm\ and\ BD = 4cm.$

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13. Construct a quadrilateral $ABCD$ given $AD = 3.5cm,\ BC = 2.5cm,\ CD = 4.1cm,\ AC = 7.3cm\ and\ BD = 3.$

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14. Construct a quadrilateral $ABCD$ given $AD = 5cm,\ AB = 5.5cm,\ BC = 2.5cm,\ AC = 7.1cm\ and\ BD = 8cm.$

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15. Construct a quadrilateral $ABCD$ in which $BC = 4cm,\ CA = 5.6cm,\ AD = 4.5cm,\ CD = 5cm\ and\ BD = 6.5cm.$

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16. Construct a quadrilateral $ABCD$ in which $AB = 2.7cm,\ BC = 3.5cm,\ CD = 4cm,\ AD = 6cm\ and\ \angle B = 90^0.$

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17. Construct a quadrilateral $ABCD$ given $AB = 5.6cm,\ BC = 4.1cm,\ CD = 4.4cm,\ AD = 3.3cm\ and\ \angle A = 75^0$

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18. Construct a quadrilateral $ABCD$ in which $AB = 3.8cm,\ BC = 3.4cm,\ CD = 4.5cm,\ AD = 5cm\ and\ \angle B = 80^0.$

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19. Construct a quadrilateral $ABCD$, given that $AB = 8cm,\ BC = 8cm,\ CD = 10cm,\ AD = 10cm\ and\ \angle A = 45^0.$

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20. Construct a quadrilateral $ABCD$ in which $AB = 7.7cm,\ BC = 6.8cm,\ CD = 5.1cm,\ AD = 3.6cm\ and\ \angle C = 120$

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21. Construct a quadrilateral $ABCD$ in which $AB = BC = 3cm,\ AD = CD = 5cm\ and\ \angle B = 120^0.$

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22. Construct a quadrilateral $ABCD$ in which $AB = 2.8cm,\ BC = 3.1cm,\ CD = 2.6cm\ and\ DA = 3.3cm\ and\ \angle A =$

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23. Construct a quadrilateral $ABCD$ in which $AB = 3.6cm,\ BC = 5.5cm,\ CD = 5cm,\ \angle B = 125^0\ and\ \angle C = 80^0.$

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24. Construct a quadrilateral $ABCD$ given $AB = 5.1cm,\ AD = 4cm,\ BC = 2.5cm,\ \angle A = 60^0\ and\ \angle B = 85^0.$

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25. Construct a quadrilateral $ABCD$ in which $AB = 6cm,\ BC = 4cm,\ CD = 4cm,\ \angle B = 95^0 and\ \angle C = 90^0.$

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26. Construct a quadrilateral $ABCD$, where $AB = 4.2cm,\ BC = 3.6cm,\ CD = 4.8cm,\ \angle B = 30^0 and\ \angle C = 150^0.$

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27. Construct a quadrilateral $PQRS$, in which $PQ = 3.5cm,\ QR = 2.5cm,\ RS = 4.1cm,\ \angle Q = 75^0 and \angle R = 120^0.$

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28. Construct a quadrilateral $ABCD$ given $BC = 6.6cm,\ CD = 4.4cm,\ AD = 5.6cm\ and\ \angle D = 100^0 and \angle C = 95$

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29. Construct a quadrilateral $ABCD$, in which $AD = 3.5cm,\ AB = 4.4cm,\ BC = 4.7cm,\ \angle A = 125^0 and \angle B = 120^0.$

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30. Construct a quadrilateral $PQRS$, in which $\angle Q = 45^0, \angle R = 90^0, QR = 5cm, PQ = 9cm$ and $RS = 7cm$

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31. Construct a quadrilateral $BDEF$, where $DE = 4.\,5cm,\ EF = 3.\,5cm,\ FB = 6.\,5cm,\ \angle F = 50^0 and \angle E = 100^0.$

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32. Construct a quadrilateral $ABCD$, where $AB = 3.5cm, BC = 6.5cm, \angle A = 75^0, \angle B = 105^0$ and $\angle C = 120^0$

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33. Construct a quadrilateral $ABCD$ given $AB = 5.\,3cm,\ AD = 2.\,9cm,\ \angle A = 70^0;\ \angle B = 95^0,\ \angle C = 85^0.$

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34. Construct a quadrilateral $ABCD$ given that $AB = 4cm,\ BC = 3\,cm,\ \angle A = 75^0,\ \angle B = 80^0\ and\ \angle C = 120^0.$

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35. Construct a quadrilateral $ABCD$, where $AB = 5.\,5cm,\ BC = 3.\,7cm,\ \angle A = 60^0,\ \angle B = 105^0 and\ \angle D = 90^0.$

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36. Construct a quadrilateral $PQRS,$ where $PQ = 3.\,5cm,\ QR = 6.\,5cm,\ \angle P = \angle R = 105^0 and\ \angle S = 75^0.$

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37. Construct a quadrilateral $ABCD$ when $BC = 5.5cm,\ CD = 4.1cm,\ \angle A = 70^0,\ \angle B = 110^0 and\ \angle D = 85^0.$

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38. Construct a quadrilateral $ABCD$, where $\angle A = 65^0,\ \angle B = 105^0,\ \angle C = 75^0,\ BC = 5.7cm\ and\ CD = 6.8cm.$

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39. Construct a quadrilateral $PQRS$, in which $PQ = 4cm,\ QR = 5cm,\ \angle P = 50^0,\ \angle Q = 110^0 and\ \angle R = 70^0.$

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