MATHS

BOOKS - NCERT MATHS (HINGLISH)

CONSTRUCTIONS

Constructions

1. With the help of a ruler and a compass it is not possible to construct an angle of

A. 37.5°

B. 40°

C. 22.5°

D. 67.5°

Answer: B

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2. The constrution of ΔABC , given that BC = 6cm, $\angle B = 45^\circ$ is not possible when difference of AB and AC is equal to

A. 6.9 cm

B. 5.2 cm

C. 5.0cm

D. 4.0 cm

Answer: A

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3. The constuction of a Δ ABC, given that BC = 3cm, $\angle C = 60^\circ$ is possible when difference of AB and AC is equal to

A. 3.2cm

B. 3.1cm

C. 3cm

D. 2.8 cm

Answer: D

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4. State true or false.

An angle of 52.5° can be constructed by compass

A. true

B. false

C. may or may not be

D. none of these

Answer: A

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5. state true or false

An angle of 42.5° can be constructed.

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6. State True or False

triangle ABC can be constructed in which $AB = 5cm, \angle A = 45^\circ$ and $BC + AC = 5cm.$

A. true

B. false

C. may or may not be

D. none of these

Answer: B

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7. State True or False

ΔABC can be constructed in which $BC = 6cm, \angle C = 30^\circ$ and $AC - AB = 4cm.$

A. true

B. false

C. may or may not be

D. none of these

Answer: A

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8. state true or false

A ΔABC can be constructed in which $\angle B = 105^\circ, \angle C = 90^\circ$ and $AB + BC + CA = 10cm$.

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9. State True of False

A ΔABC can be constructed in which $\angle B = 60^\circ, \angle C = 45^\circ$ and $AB + BC + CA = 12cm$.

A. true

B. false

C. may or may not

D. none of these

Answer: A

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Short Answer Type Questions

1. Draw an angle of 110° with the help of a protractor and bisect it. Measure each angle.

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2. Draw a line segment AB of $4cm$ in length . Draw a line perpendicular to AB through A and B, respectively. Are these lines parallel?

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3. Draw an angle of 80° with the help of protractor . Then, construct angles of $(i)40^\circ\,(ii)160^\circ$ and $(iii)120^\circ$.

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4. Construct a triangle whose sides are 3.6 cm , $3.0cm$ and $4.8cm$. Bisect the smallest angle and measure each part.

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5. Construct a ΔABC in which $BC = 5cm, \angle B = 60^\circ$ and $AC + AB = 7.5cm$.

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6. Construct a square of side $3cm$.

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7. Construct a rectangle whose adjacent sides are of lengths 5cm and $3.5cm$.

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8. Construct a rhombus whose side is of length $3.4cm$ and one of its angles is 45° .

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Long Answer Type Questions

1. A triangle if its perimeter is $10.4cm$ and two angles are 45° and 120°.

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2. A ΔPQR, given that $QR = 3cm$, $\angle PQR = 45^\circ$ and $QP - PR = 2cm$.

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3. A right triangle when one side is $3.5cm$ and sum of other sides and the hypotenuse is $5.5cm$.

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4. An equilateral triangle, if its altitude is $3.2cm$

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5. A rhombus whose diagonals are $4cm$ and $6cm$ in lengths.

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