



MATHS

BOOKS - SWAN PUBLICATION

CONSTRUCTIONS

Exercise 11.1

1. Construct an angle of 90° at the initial point of a given ray and justify the construction.



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2. Construct an angle of 45° at the initial point of a given ray and justify the construction.



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3. Construct the angles of the following measurement 30° .



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4. Construct the angles of the following measurement 15° .



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5. Construct the angles of the following measurement 15° .



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6. Using ruler and compasses, construct the following angles and justify your construction

: 150°



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7. Using ruler and compasses, construct the following angles and justify your construction

: 150°



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8. Using ruler and compasses, construct the following angles and justify your construction

: 150°



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9. Construct an equilateral triangle, given its side and justify the construction.



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1. Construct a triangle ABC in which $BC = 7\text{cm}$,
 $\angle B = 75^\circ$ and $AB + AC = 13\text{cm}$.



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2. Construct a triangle ABC in which
 $BC = 8\text{cm}$, $\angle B = 45^\circ$ and
 $AB - AC = 3.5\text{cm}$.



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3. Construct a triangle PQR in which $QR = 6\text{cm}$, $\angle Q = 60^\circ$ and $PR - PQ = 2\text{cm}$.



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4. Construct a triangle XYZ in which $\angle Y = 30^\circ$, $\angle Z = 90^\circ$ and $XY + YZ + ZX = 11\text{cm}$.



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



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