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## MATHS

## BOOKS - JNAN PUBLICATION

## CONSTRUCTION OF TRIANGLES.

506

1. Draw a triangle $A B C$ in which $A B=5.5 \mathrm{~cm}$, $B C=5 \mathrm{~cm}$ and $C A=6 \mathrm{~cm}$.
2. Draw an equilateral triangle having each side $=4.5 \mathrm{~cm}$, also measure its three angles
with a protractor and write their measures.

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2. Draw a triangle $P Q R$, such that $P Q=6 \mathrm{~cm}$,
$Q R=5 \mathrm{~cm}$, and $P R=6 \mathrm{~cm}$.

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509

1. Draw a triangle $\triangle X Y Z$, such that $\mathrm{YZ}=6.5$

$$
\mathrm{cm} . \angle X Y Z=60^{\circ} \text { and } \angle X Z Y=70^{\circ}
$$

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1. Construct a $\triangle A B C$, so that $\mathrm{BC}=5.5 \mathrm{~cm}$,
$\angle A B C=60^{\circ}$ and $\angle A C B=30^{\circ}$

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2. To draw a triangle whose one side $\mathrm{QR}=$
$7.2 \mathrm{~cm}, \angle P Q R=80^{\circ}$ and $\angle P R Q=115^{\circ}$. If triangle can not be constructed, to find the reason for such problem.
3. Draw an isosceles triangle whose two equal sides are 7.2 cm each and the angle included between them is $100^{\circ}$.

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511

1. Construct a right angled $\triangle P Q R$ such that
$\angle P Q R=90^{\circ}, \mathrm{PQ}=6 \mathrm{~cm}$. And $\mathrm{QR}=4 \mathrm{~cm}$.
2. Draw a right angled $\triangle X Y Z$ such that
$\angle X Y Z=90^{\circ}, \mathrm{xZ}=10 \mathrm{~cm}$ and $\mathrm{xY}=6 \mathrm{~cm}$.

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3. Draw a right angled $\triangle A B C$. Such that
$\angle B A C=90^{\circ}, \mathrm{BC}=8 \mathrm{~cm}$ and $\angle A C B=45^{\circ}$.

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