



MATHS

BOOKS - TARGET MATHS (HINGLISH)

GEOMETRIC CONSTRUCTIONS



1. To divide a line segment in a given ratio.



2. $\triangle ABC \sim \triangle PQR$. In \triangle , AB=3.6 cm, BC=4 cm and AC=4.2 cm. The corresponding sides of $\triangle ABC$ and $\triangle PQR$ are in the ratio 2:3. Construct $\triangle PQR$ and $\triangle ABC$. 3. If length of side AB is $\frac{11.6}{3}$ cm, then by dividing the line

segment of length 11.6 cm in three equal parts, draw segment AB.

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4. $\triangle LMN \sim \triangle LPQ$. In $\triangle LMN$, LM=4.2 cm, $\angle L = 50^{\circ}$, LN=3.6 cm and $\frac{LM}{LP} = \frac{4}{5}$. Construct $\triangle LQP$.

5. Construct any $\triangle ABC$. Construct $\triangle A'BC'$ such that AB:A'B=5:3 and $\triangle ABC \sim \triangle A'BC'$.

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1. ΔABC - ΔLMN . In ΔABC , AB=5.5cm, BC = 6 cm, CA = 4.5

cm. If MN = 4.8 cm then construct ΔABC and ΔLMN

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2. $\triangle PQR \sim \triangle LTR$. In $\triangle PQR$, PQ=4.2 cm, QR=5.4 cm, PR=4.8 cm. Construct $\triangle PQR$ and $\triangle LTR$, such that $\frac{PQ}{LT} = \frac{3}{4}$.

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3. $\triangle RST \sim \triangle ZYZ$. In $\triangle RST$, RS=4.5 cm, $\angle RST = 40^{\circ}$, ST=5.7 cm. Construct $\triangle RST$ and $\triangle XYZ$, such that $\frac{RS}{XY} = \frac{3}{5}$.

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4. $riangle AMT \sim riangle AHE$.In $riangle AMT, AM = 6.3cm, riangle TAM = 50^\circ, AT = 5.6cm. rac{AM}{AH} = rac{7}{5}.$

 $Construct \bigtriangleup AHE.$

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Practice Set 4 2

1. Draw a circle of radius 3.3 cm. Draw diameter PQ. Draw tangents

at P and Q. Write observation about the tangents.





1. The number of tangents that can be drawn to a circle at a point

on the circle is

A. 3 B. 2 C. 1

D. 0

Answer: C

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2. The maximum number of tangents that can be drawn to a circle

from a point outside it is.....

B. 1

C. One and only one

D. 0

Answer: A

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3. If
$$\triangle ABC \sim \triangle PQR$$
 and $\frac{AB}{PQ} = \frac{7}{5}$, then.....

A. riangle ABC is bigger

B. riangle PQR is bigger

C. both triangles will be equal

D. can not be decided

Answer: A



4. $\triangle ABC \sim \triangle LBN.$ In $\triangle ABC, AB = 5.1cm, \angle B = 40^{\circ}, BC = 4.8cm, \frac{AC}{LN} = \frac{4}{7}$.Construct $\triangle ABC$ and $\triangle LBN$.

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5. Construct $\triangle PYQ$ such that, PY=6.3 cm, YQ=7.2 cm, PQ=5.8 cm. If

 $rac{YZ}{YQ}=rac{6}{5}$, then construct riangle XYZ similar to riangle PYQ .

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Chapter Assessment

1. The maximum number of tangents that can be drawn to a circle

from a point outside it is.....

A. 2

B. 1

C. One and only one

D. 0

Answer: A

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2. If
$$riangle LMN$$
~ $riangle HIJ$ and $rac{LM}{HI}=rac{2}{3}$, then

A. riangle LMN is smaller

B. riangle HIJ is smaller

- C. both triangles are equal
- D. can not be decided

Answer: A

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3. The tangents drawn at the end points of the diameter of a circle

will be

A. perpendicular to each other

B. parallel to each other

C. inclined to each other at $45^{\,\circ}$

D. inclined to each other at $60^{\,\circ}$

Answer: B



