

Q156**ISOMETRIC PROJECTIONS**

131

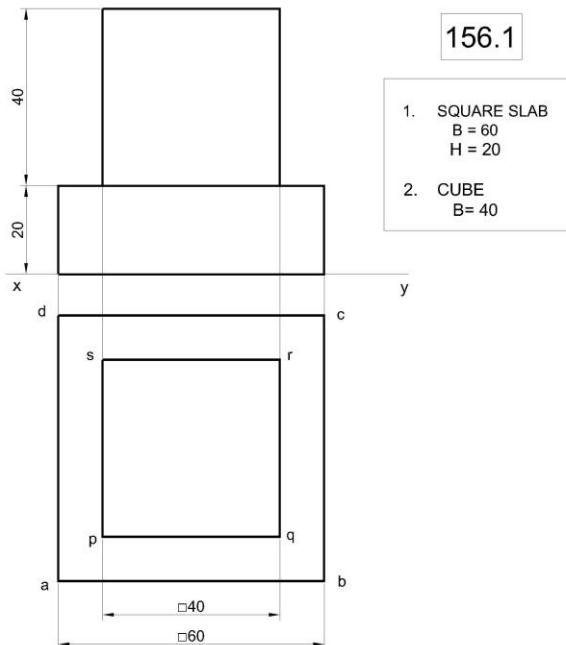
CUBE - ON SQUARE PRISM

A cube of dimension 40mm is placed over another square slab of base edge of 60mm and height 20mm. Axes of the two are coincides. Draw the isometric projections.

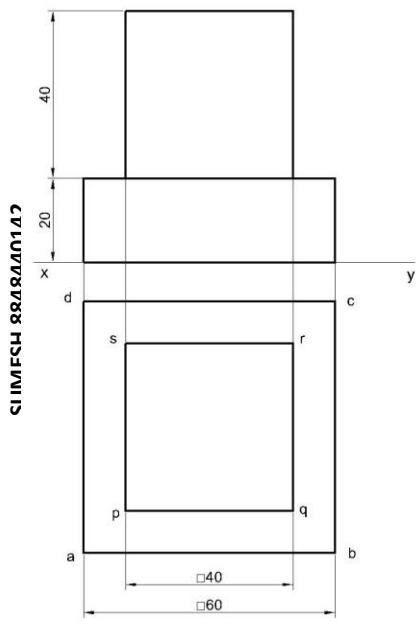
SUMESH 8848440142

CUBE: B- 40mm ;**SQUARE PRISM: B - 60mm; H -20mm**

SUMESH 8848440142

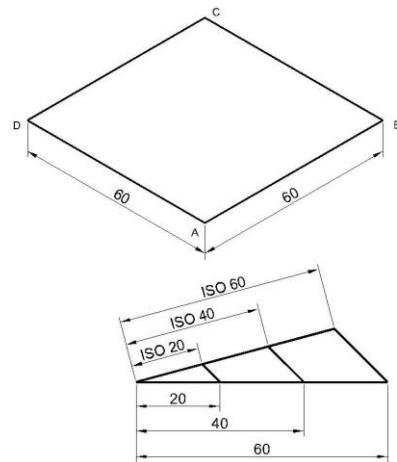


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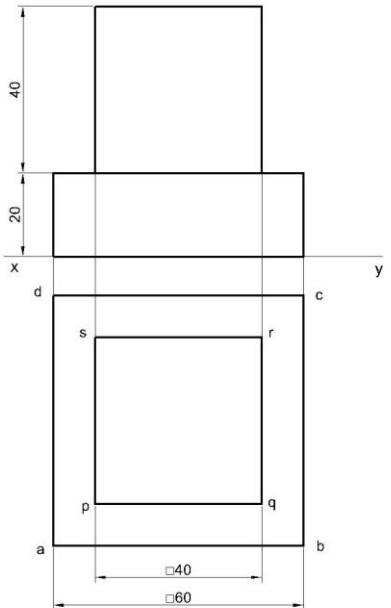


156.2

1. SQUARE SLAB
 $B = 60$
 $H = 20$
2. CUBE
 $B = 40$

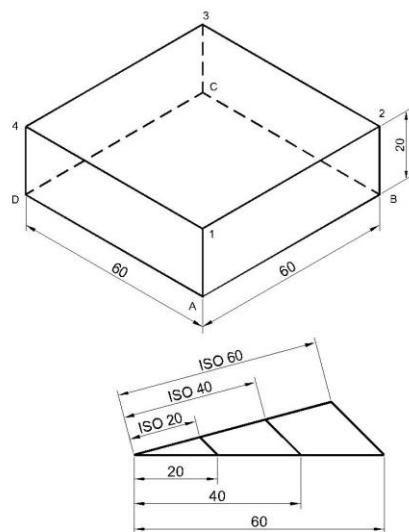


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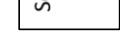


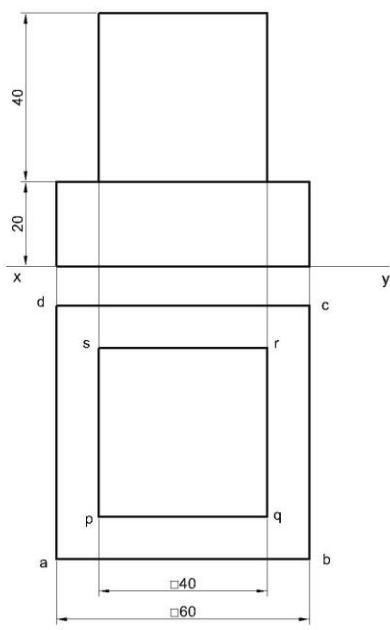
156.3

1. SQUARE SLAB
 $B = 60$
 $H = 20$
2. CUBE
 $B = 40$



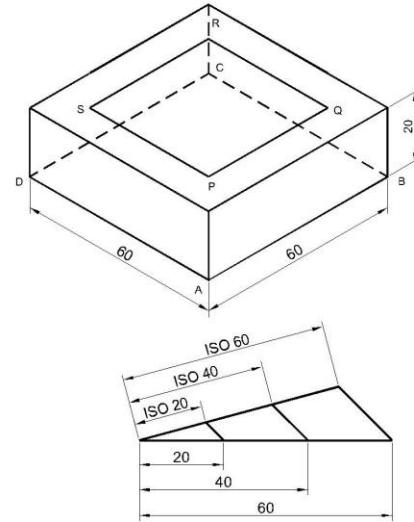
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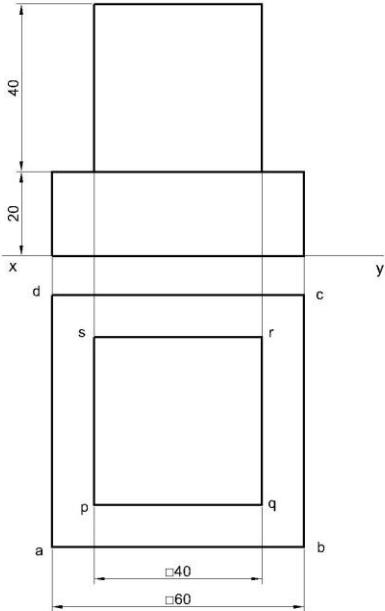


156.4

1. SQUARE SLAB
 $B = 60$
 $H = 20$
2. CUBE
 $B = 40$

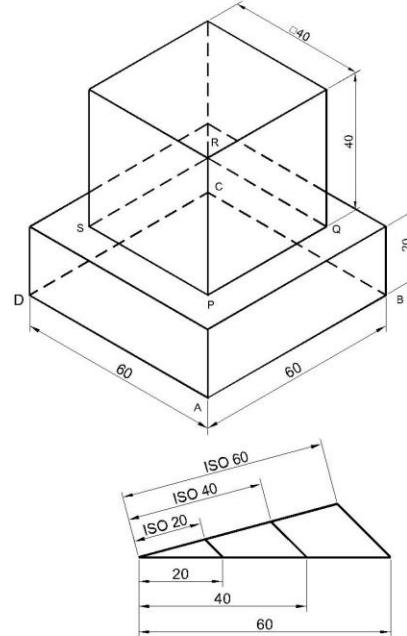


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156.5

1. SQUARE SLAB
 $B = 60$
 $H = 20$
2. CUBE
 $B = 40$



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Q157**ISOMETRIC PROJECTIONS**

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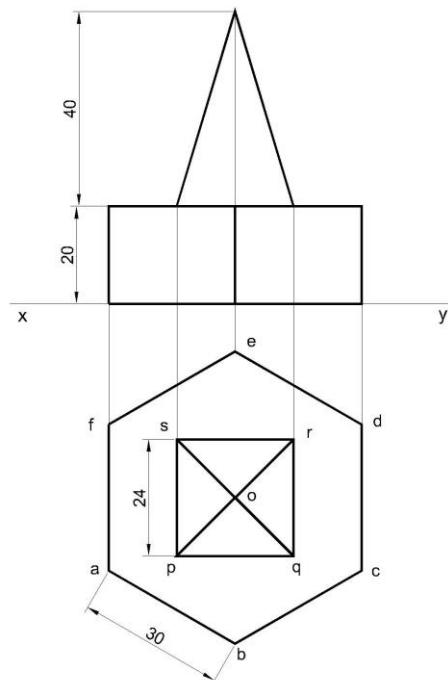
SQUARE PYRAMID – ON HEXAGONAL PRISM

A square pyramid of dimension 24mm base and height 40mm is placed over another hexagonal slab of base edge of 30mm and height 20mm. Axes of the two are coincides. Draw the isometric projections.

SUMESH 8848440142

SQUARE PYRAMID: B- 24mm; H-40mm;**HEXAGONAL PRISM:** B - 30mm; H -20mm

SUMESH 8848440142



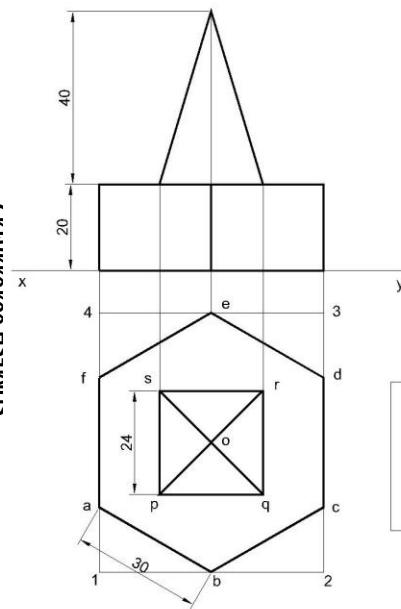
157.1

1. HEX. SLAB
B = 30
H = 20
2. SQ. PYRAMID
B= 24
H=40

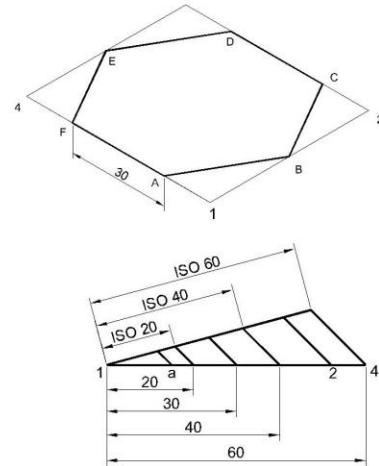
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CIRCLE OF KNOWLEDGE

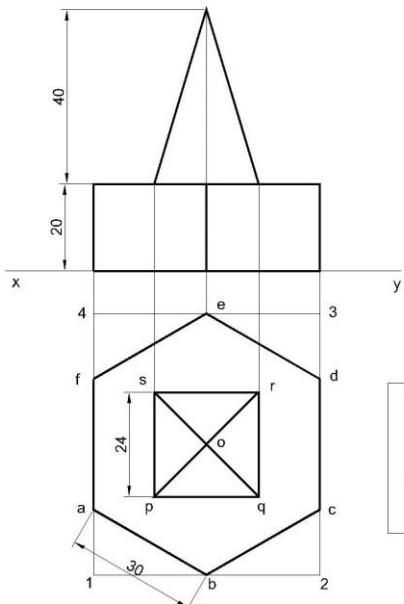
**157.2**

1. HEX. SLAB
 $B = 30$
 $H = 20$
2. SQ. PYRAMID
 $B = 24$
 $H = 40$

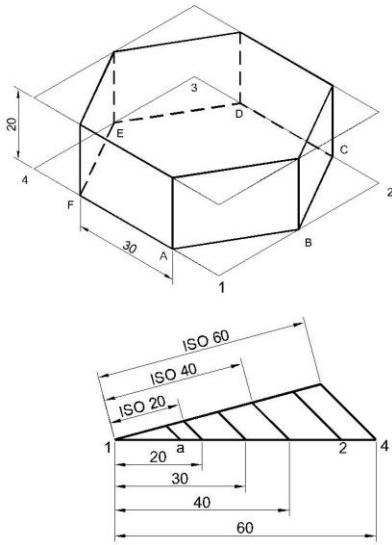


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SUMESH 8848440142

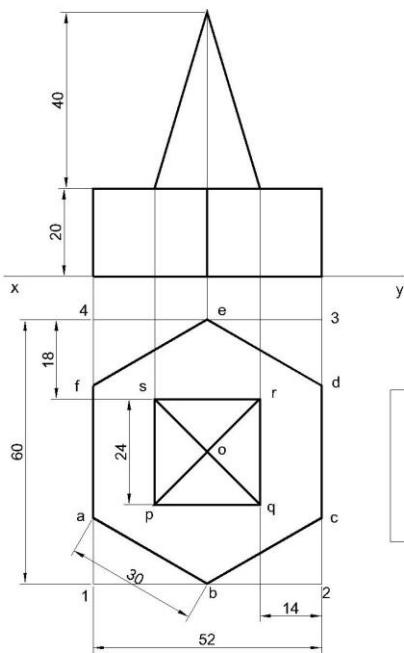
**157.3**

1. HEX. SLAB
 $B = 30$
 $H = 20$
2. SQ. PYRAMID
 $B = 24$
 $H = 40$



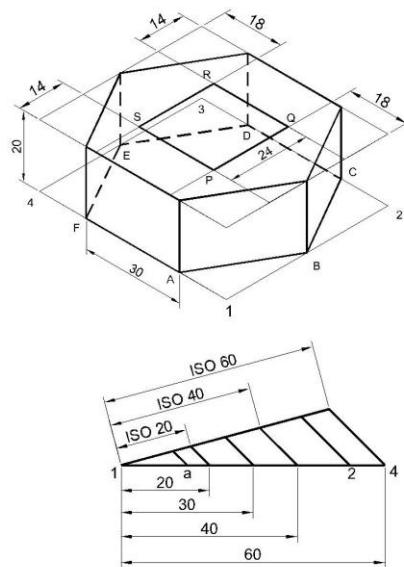
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SUMESH 8848440142



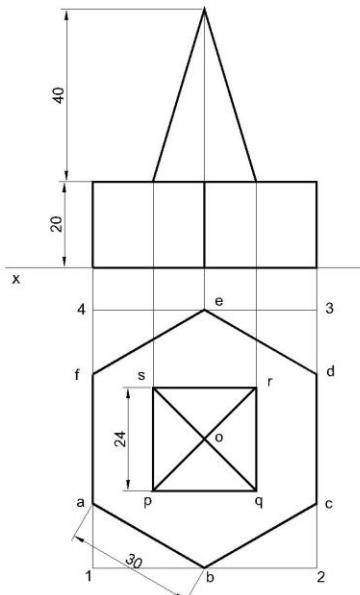
157.4

1. HEX. SLAB
 $B = 30$
 $H = 20$
2. SQ. PYRAMID
 $B = 24$
 $H = 40$



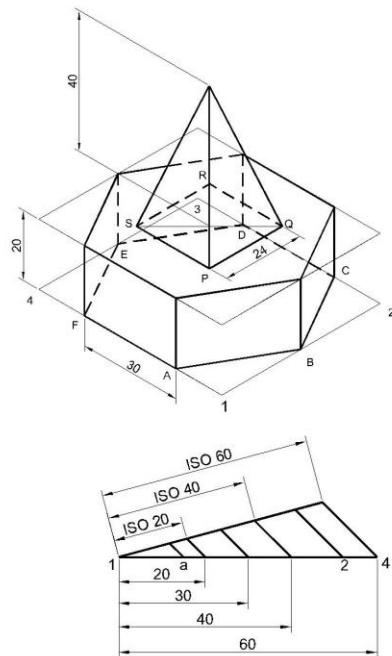
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157.5

1. HEX. SLAB
 $B = 30$
 $H = 20$
2. SQ. PYRAMID
 $B = 24$
 $H = 40$



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L5

ISOMETRIC PROJECTIONS



133

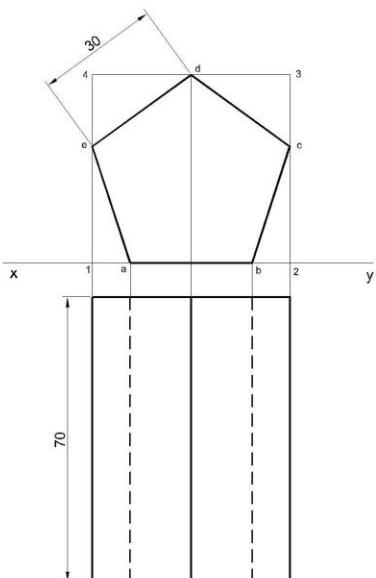
PENTAGONAL PRISM RESTING ON RECTANGULAR FACE

A pentagonal prism of dimension 30mm base and height 70mm is resting on the rectangular face on HP such that the end faces parallel to VP. Draw the isometric projections.

SUMESH 8848440142

PENTAGONAL PRISM: B- 30mm; H-70mm;

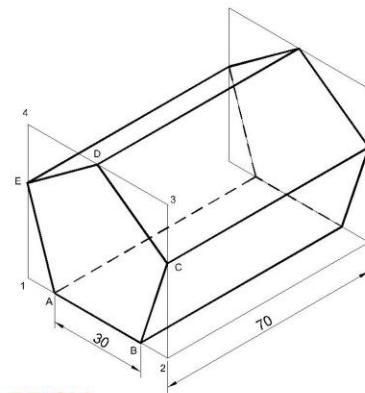
SUMESH 8848440142



1. PENTAGONAL
PRISM
B= 30
H = 70

L5.15

PENTAGONAL PRISM
(RESTING ON
RECTANGULAR FACE)



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Q158**ISOMETRIC PROJECTIONS**

134

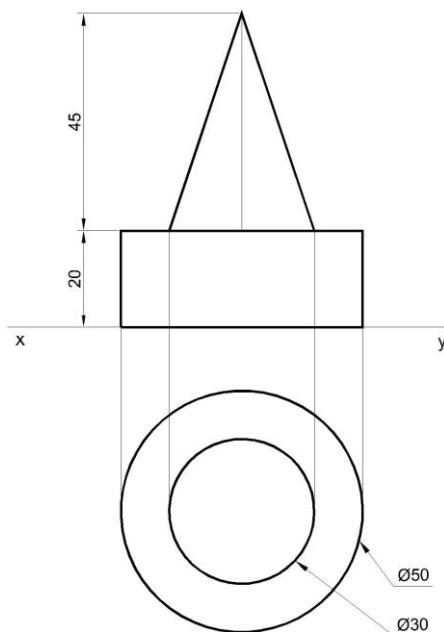
CONE ON CYLINDER

A cone of base diameter 30mm and 45mm is placed over another cylindrical slab of base diameter 50mm and height 20mm. Axes of the two are coincides. Draw the isometric projections.

SUMESH 8848440142

CONE : D- 30mm; H-45mm;**CYLINDER: B - 50mm; H -20mm**

SUMESH 8848440142

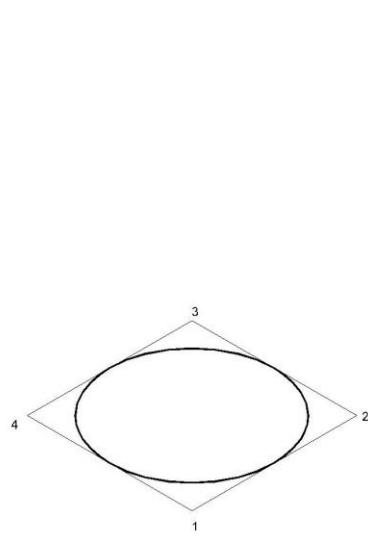
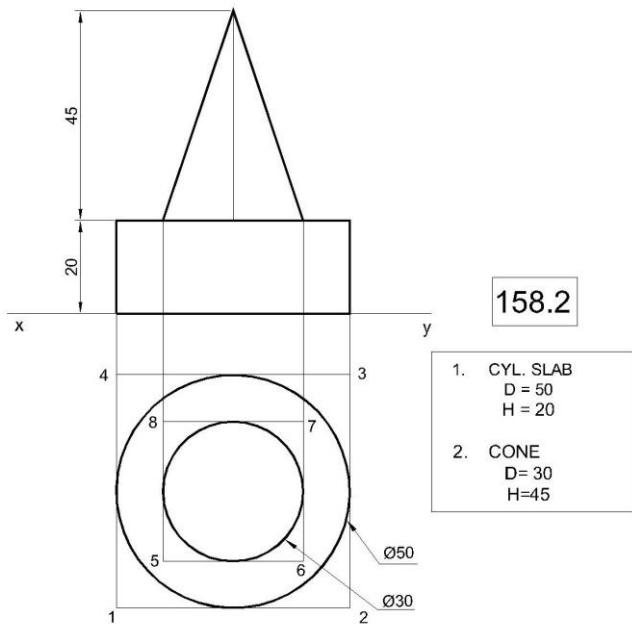


158.1

1. CYL. SLAB
D = 50
H = 20
2. CONE
D= 30
H=45

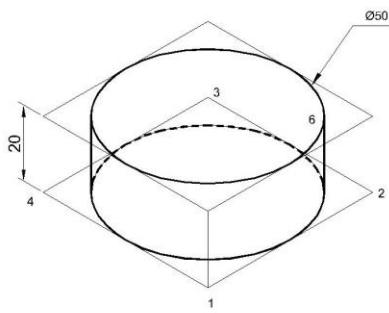
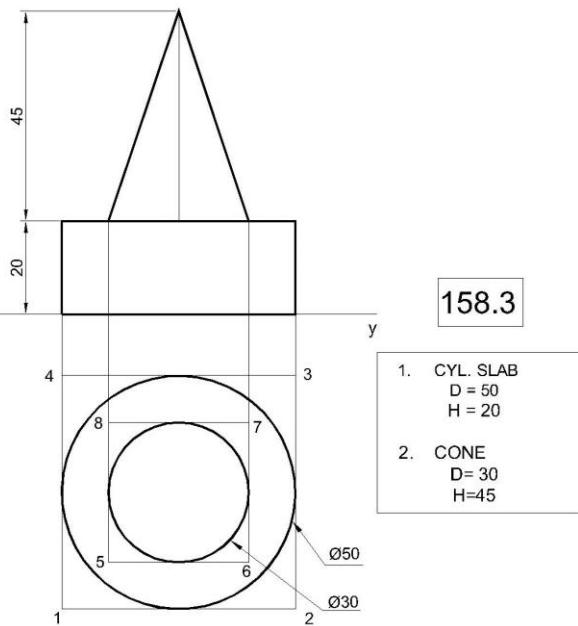
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SUMESH 8848440142

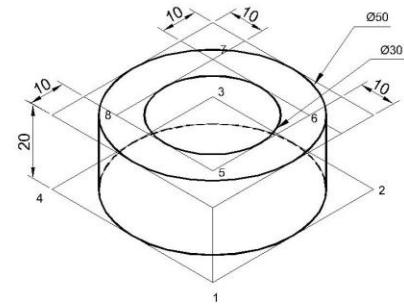
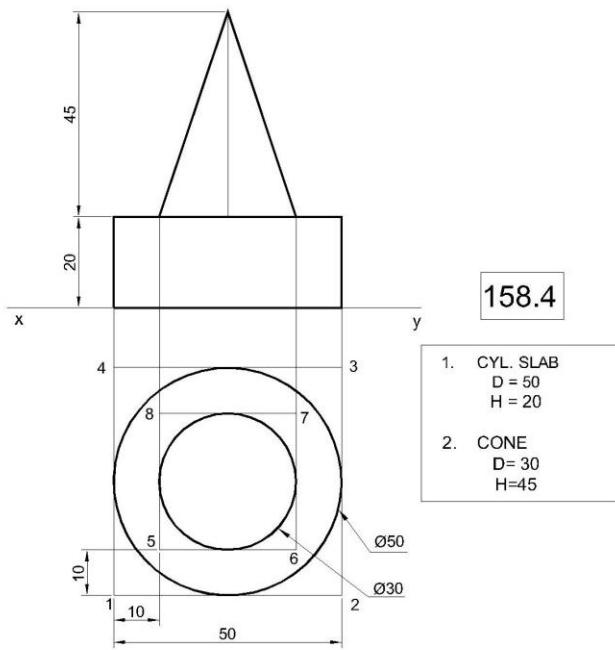


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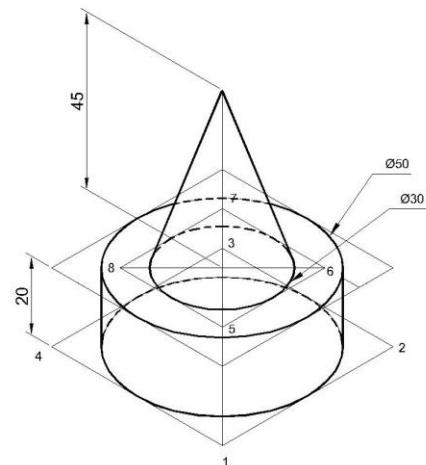
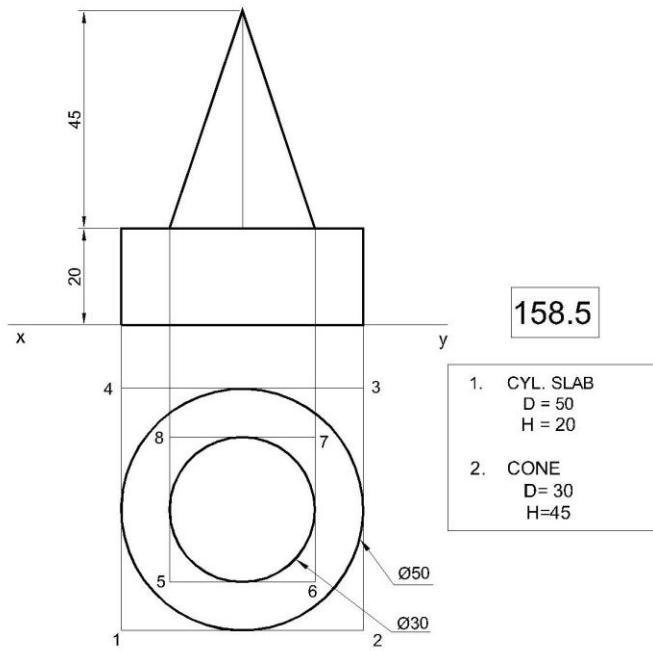
SUMESH 8848440142



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Q160**ISOMETRIC PROJECTIONS**

135

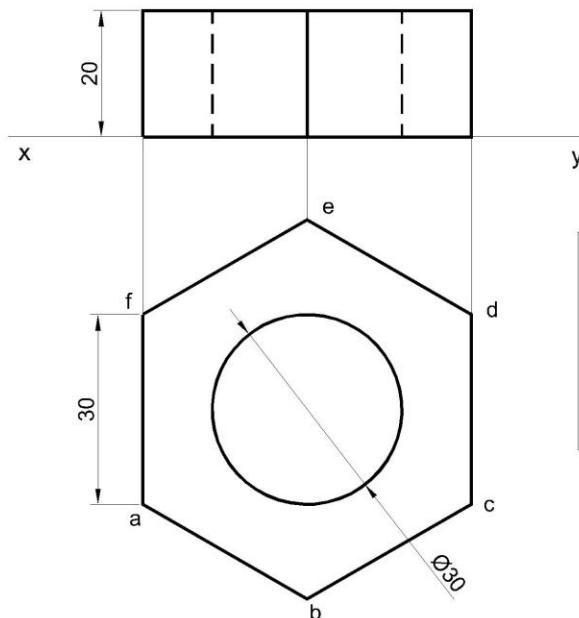
CYLINDRICAL HOLE ON HEXAGONAL PRISM - HEXAGONAL NUT

A cylindrical through hole of base diameter 30mm is drilled concentrically to another hexagonal prism of base edge 30mm and height 20mm. Draw the isometric projections.

SUMESH 8848440142

CYLINDER : D- 30mm;**HEXAGONAL PRISM : B - 30mm; H -20mm**

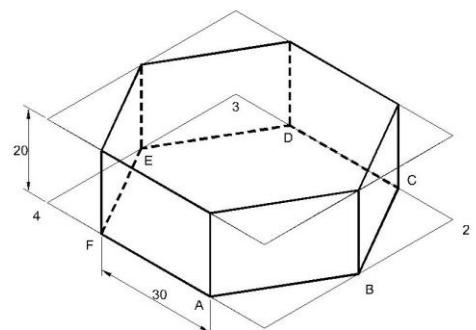
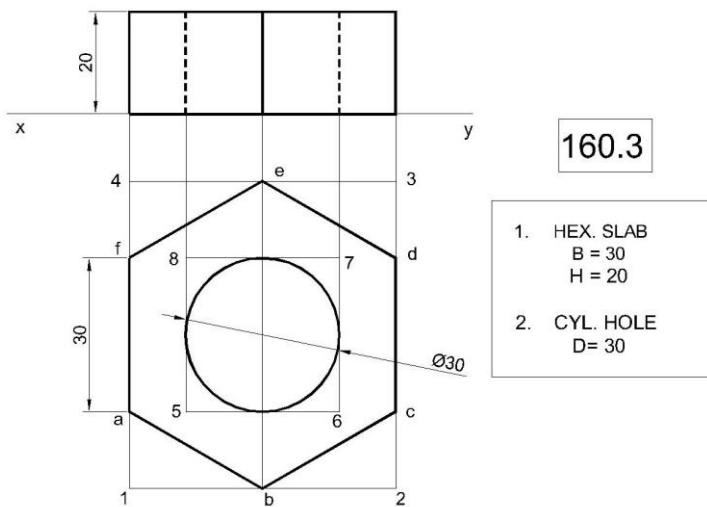
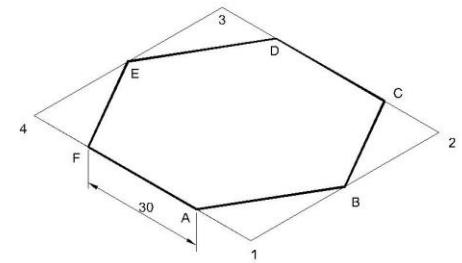
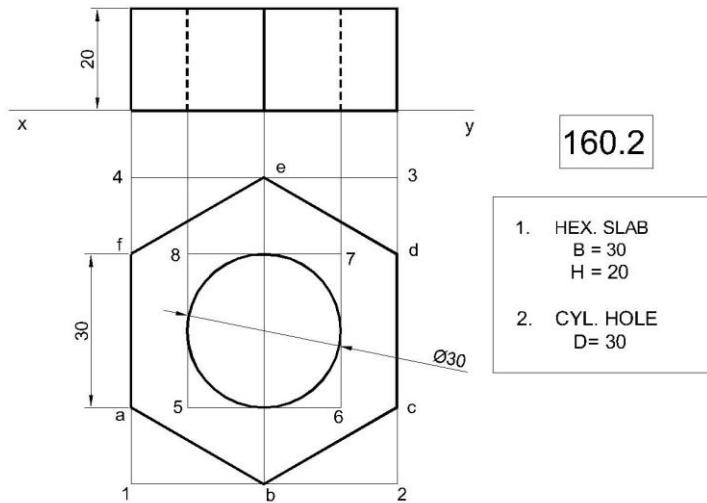
SUMESH 8848440142

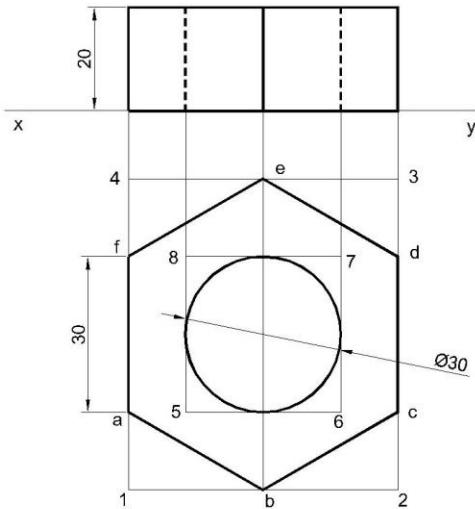
**160.1**

1. HEX. SLAB
 $B = 30$
 $H = 20$
2. CYL. HOLE
 $D = 30$

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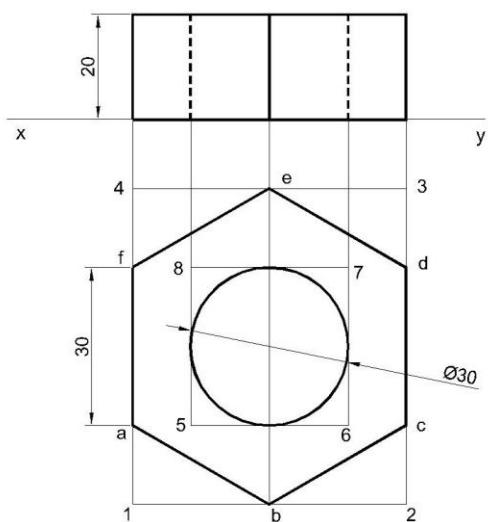
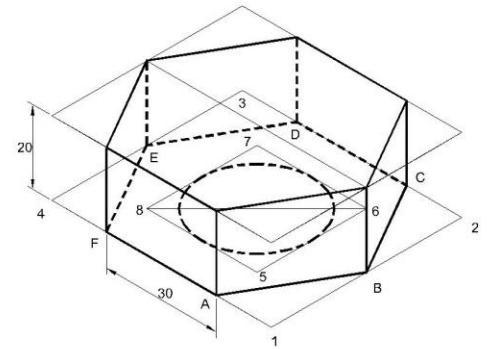






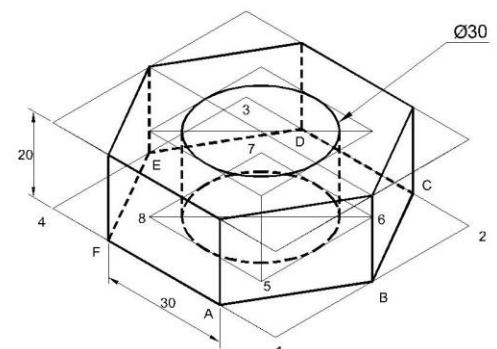
160.4

1. HEX. SLAB
 $B = 30$
 $H = 20$
2. CYL. HOLE
 $D = 30$



160.5

1. HEX. SLAB
 $B = 30$
 $H = 20$
2. CYL. HOLE
 $D = 30$



Q161**ISOMETRIC PROJECTIONS**

136

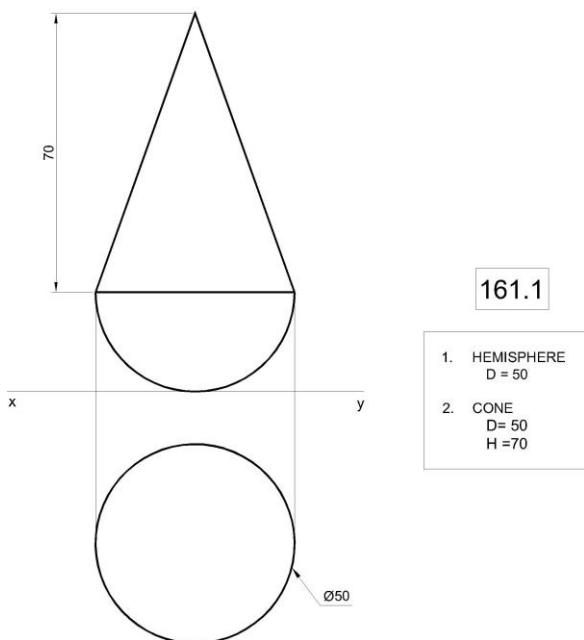
TOY PROBLEM- CONE ON HEMISPHERE

A toy is in the shape of a cone placed over another hemisphere of same diameter such that the both circular faces pasted together. Diameter of both cylinder and hemisphere is 50mm and height of the cone is 70mm. Axes of the two are coincides. Draw the isometric projections.

SUMESH 8848440142

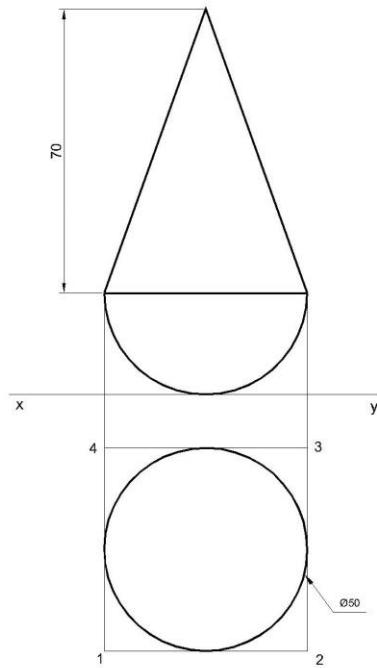
CONE : D- 50mm; H-70mm;**HEMISPHERE: D - 50mm**

SUMESH 8848440142



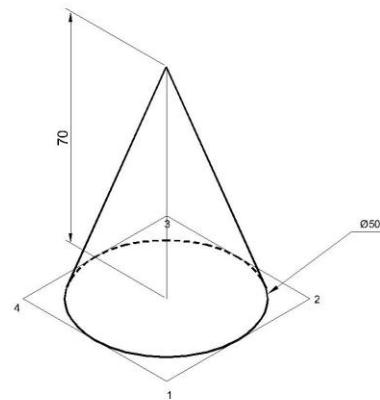
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161.2

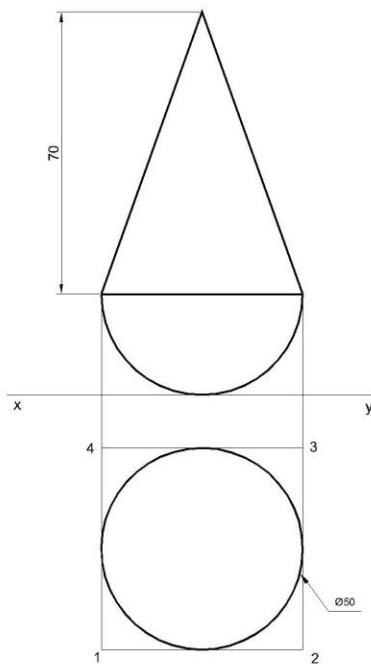
1. HEMISPHERE
 $D = 50$
2. CONE
 $D = 50$
 $H = 70$



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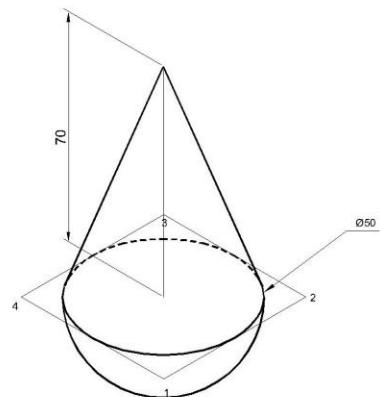


SUMESH 8848440142



161.3

1. HEMISPHERE
 $D = 50$
2. CONE
 $D = 50$
 $H = 70$



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Q162**ISOMETRIC PROJECTIONS**

137

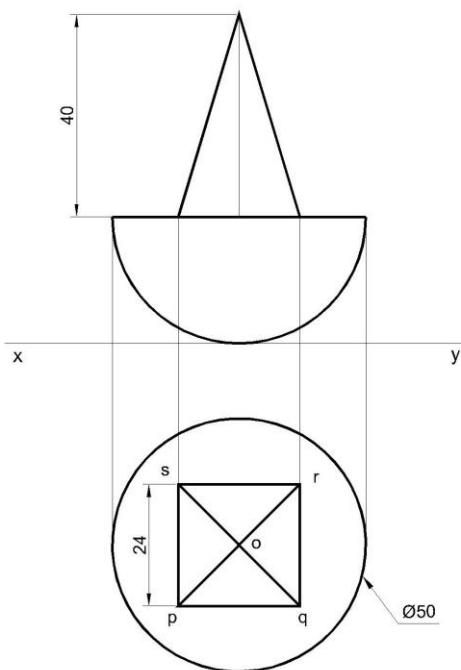
SQUARE PYRAMID ON HEMISPHERE

Draw the isometric projection of a square pyramid, side of base 24mm and height 40mm rests with its base centrally on a hemisphere of diameter 50mm.

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SQUARE PYRAMID : B- 24mm; H-40mm;**HEMISPHERE: D - 50mm**

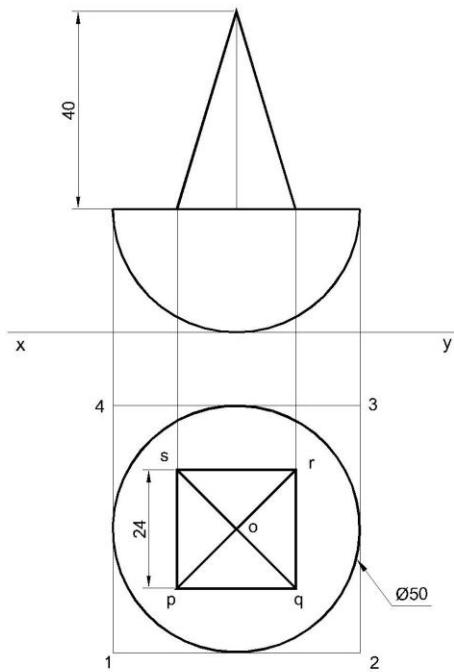
SUMESH 8848440142



162.1

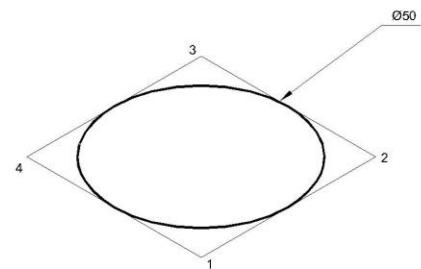
1. HEMISPHERE
 $D = 50$
2. SQ. PYRAMID
 $B = 24$
 $H = 40$

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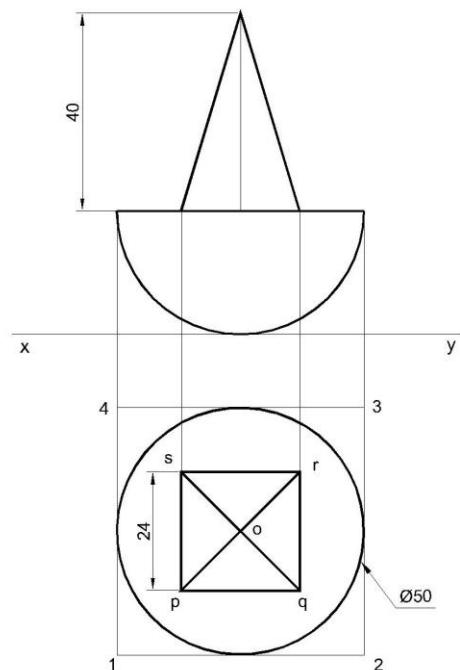


162.2

1. HEMISPHERE
 $D = 50$
2. SQ. PYRAMID
 $B = 24$
 $H = 40$

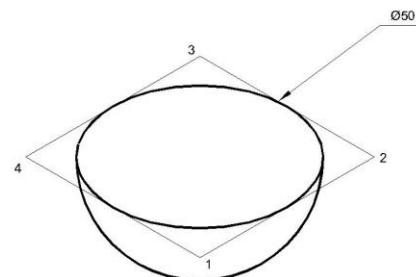


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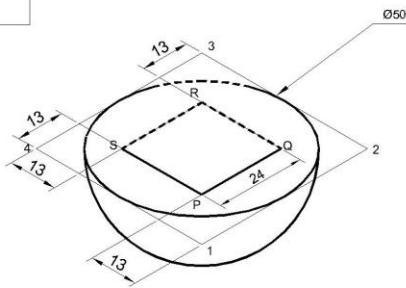
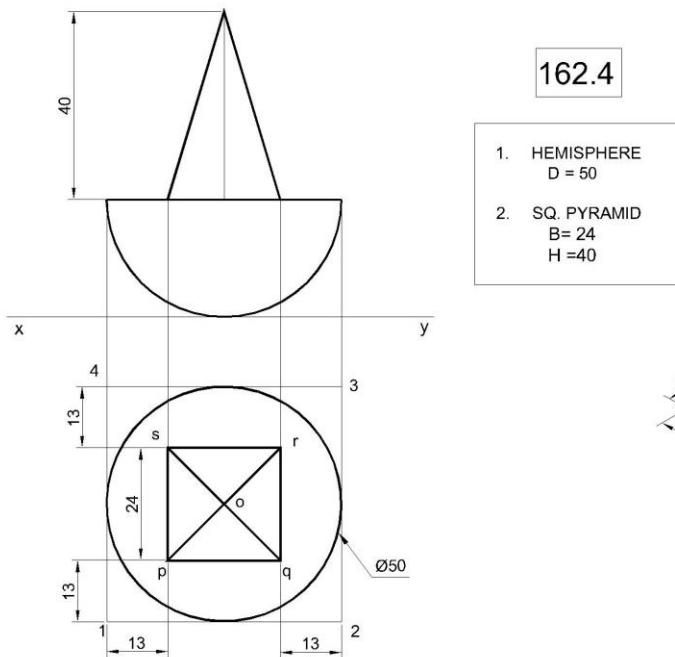


162.3

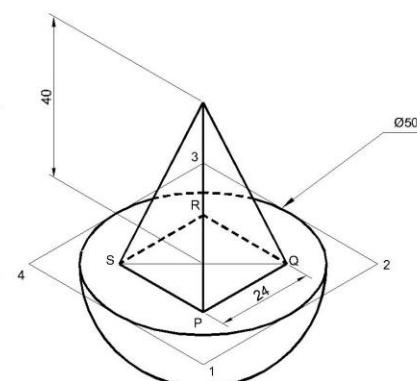
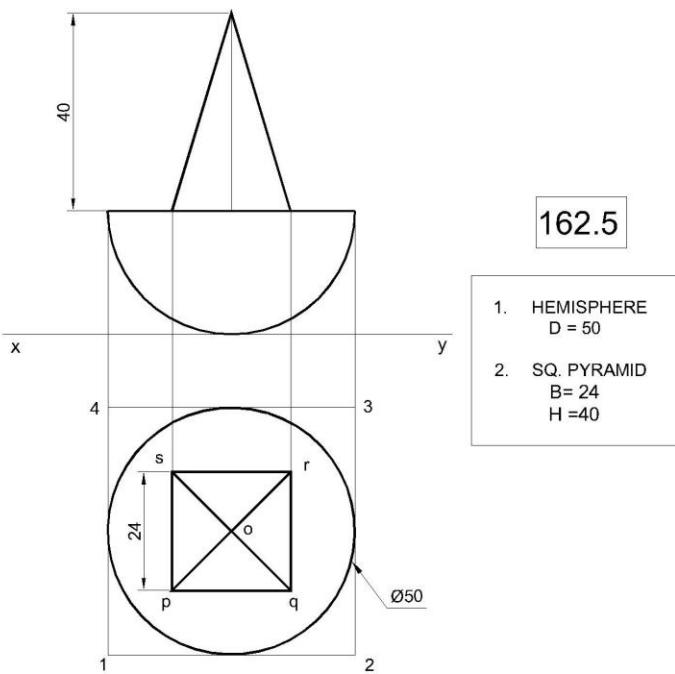
1. HEMISPHERE
 $D = 50$
2. SQ. PYRAMID
 $B = 24$
 $H = 40$



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Q163**ISOMETRIC PROJECTIONS**

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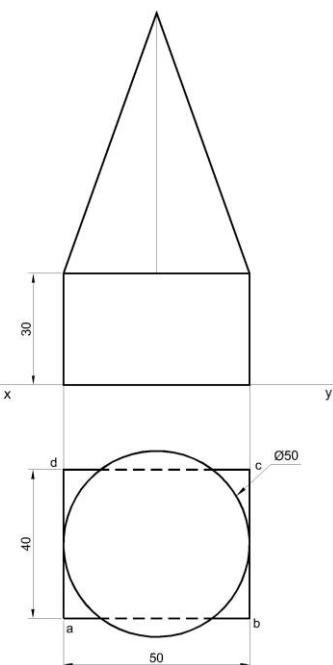
CONE ON RECTANGULAR BLOCK

A right circular cone of 50mm diameter and height 70mm rests symmetrically over a rectangular block 50mm x 40mm base and 30mm height. Draw the isometric projection.

SUMESH 8848440142

CONE : D- 50mm; H-70mm;**RECTANGULAR BLOCK : 50mm x 40mm ; H-30mm**

SUMESH 8848440142



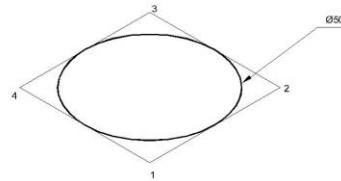
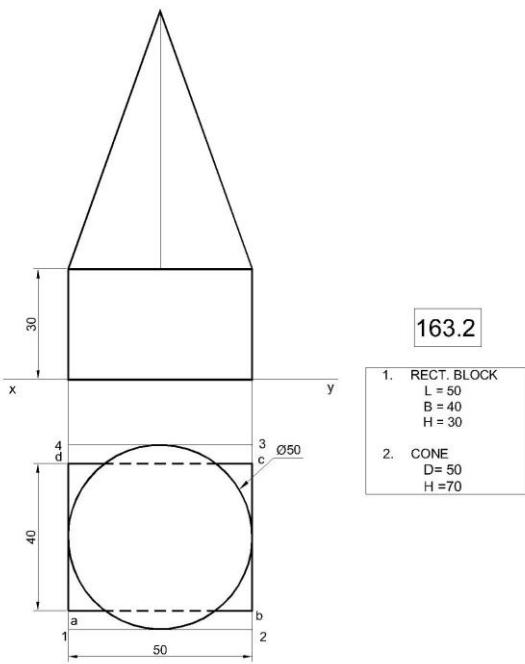
163.1

1. RECT. BLOCK
L = 50
B = 40
H = 30
2. CONE
D = 50
H = 70

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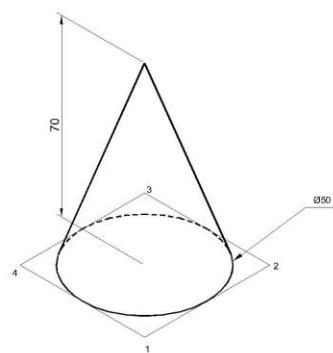
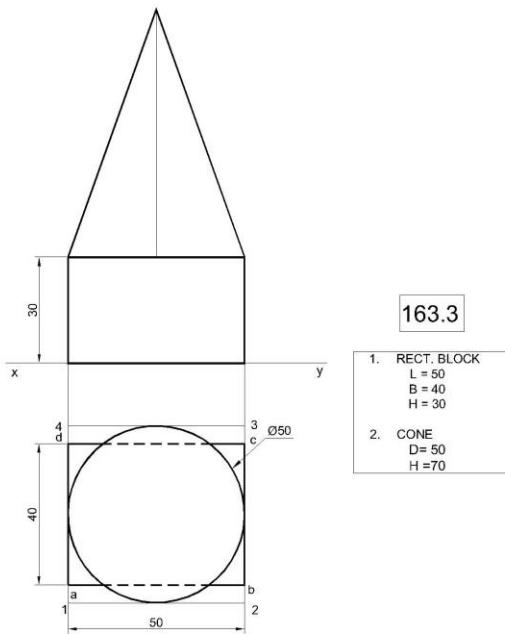


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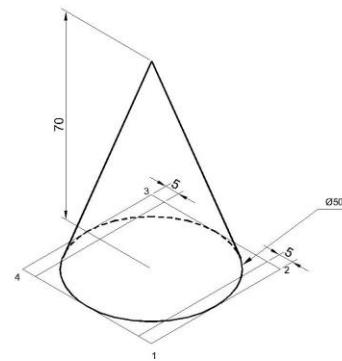
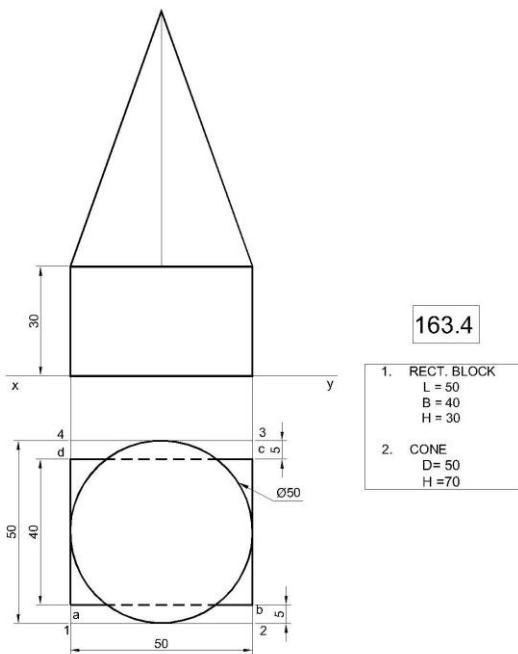
SUMESH 8848440142



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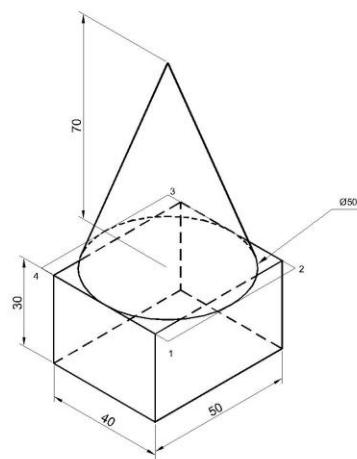
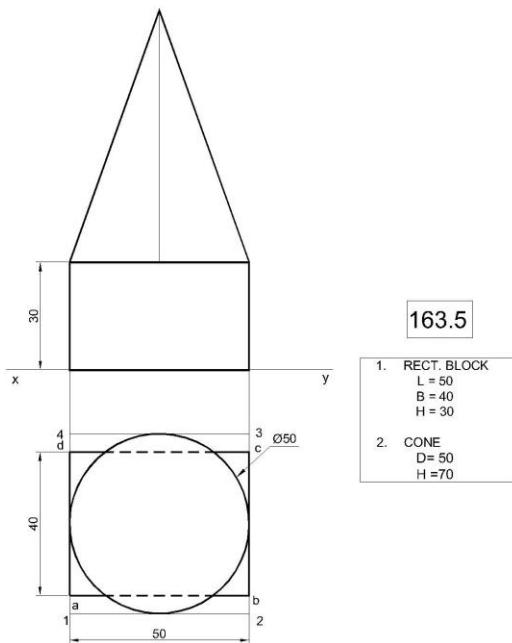


SUMESH 8848440142



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Q205**ISOMETRIC PROJECTIONS**

139

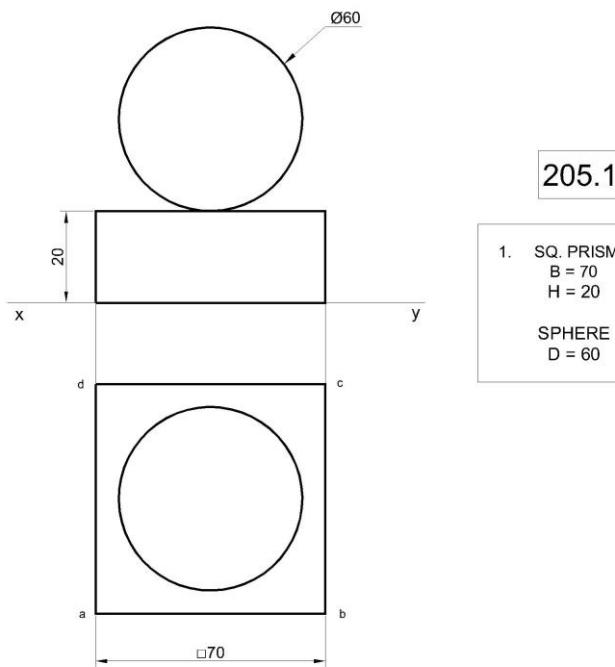
SPHERE ON SQUARE BLOCK

A sphere of diameter 60mm is centrally resting on the top surface of a square block of base dimension 70mm and height 20mm. Draw the isometric view of the combination.

SUMESH 8848440142

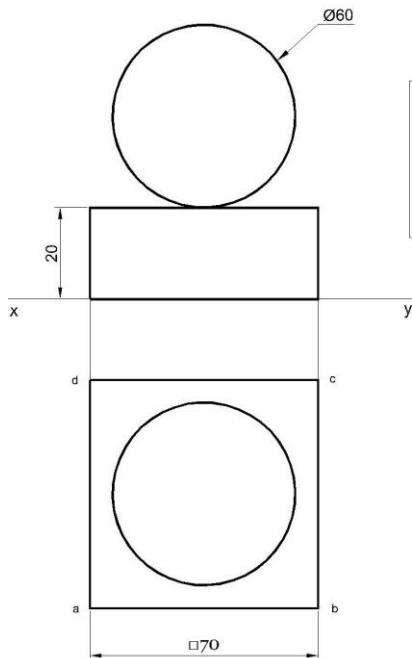
SQUARE BLOCK: B- 70mm; H-20mm;**SPHERE D -60mm**

SUMESH 8848440142



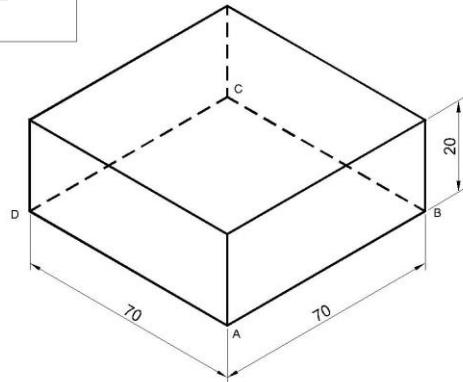
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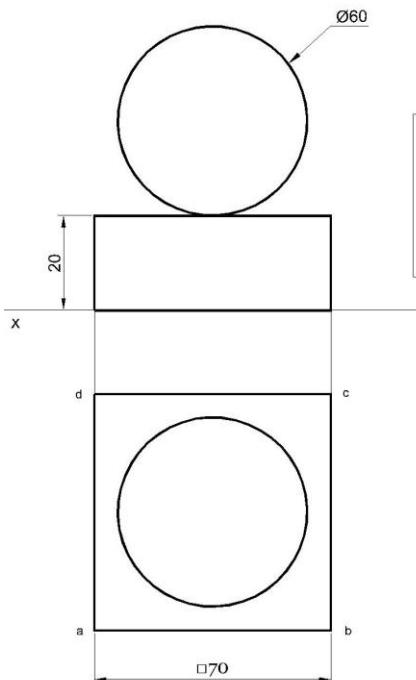
205.2

1. SQ. PRISM
 $B = 70$
 $H = 20$
- SPHERE
 $D = 60$



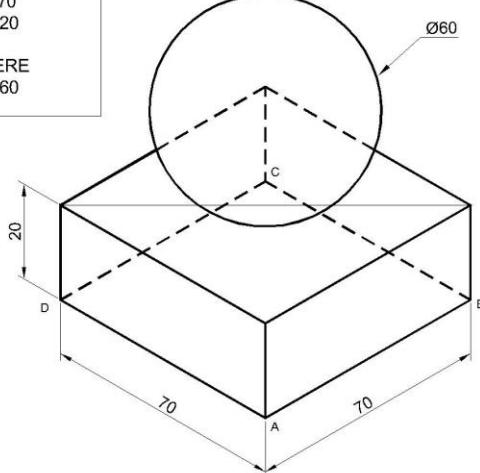
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205.3

1. SQ. PRISM
 $B = 70$
 $H = 20$
- SPHERE
 $D = 60$



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Q164**ISOMETRIC PROJECTIONS**

140

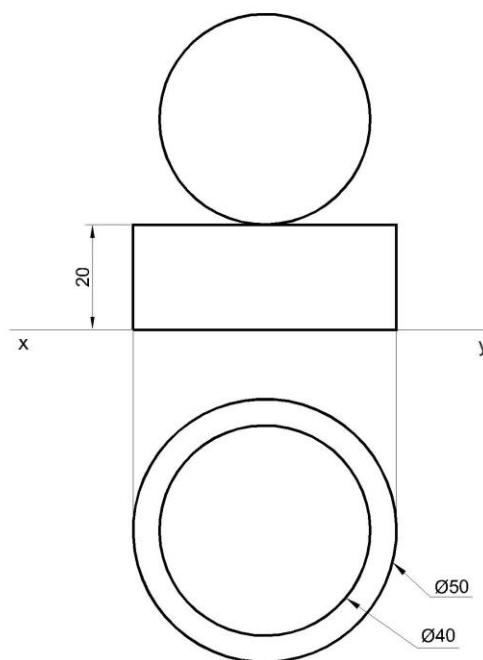
SPHERE ON CYLINDER

A sphere of diameter 40mm placed centrally over another cylindrical slab of base diameter 50mm and height 20mm. Draw the isometric projections.

SUMESH 8848440142

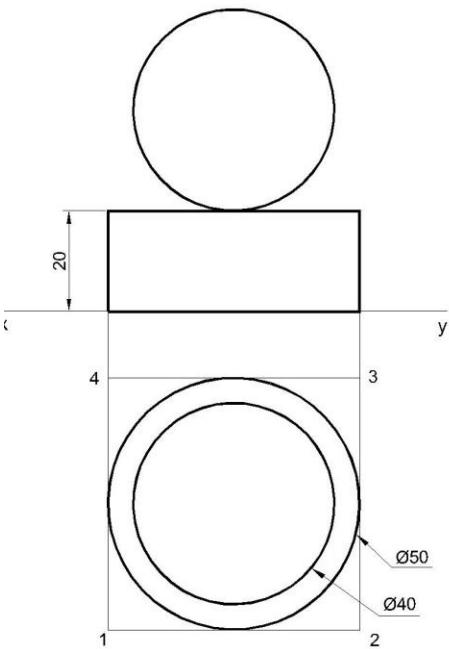
SPHERE : D- 40mm;**CYLINDER: B - 50mm; H -20mm**

SUMESH 8848440142

**164.1**

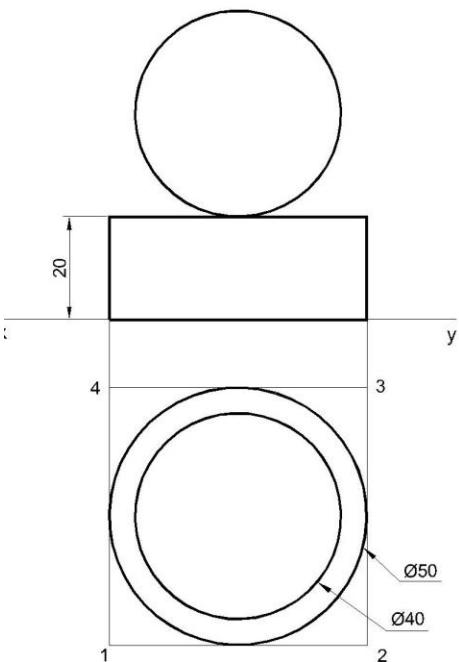
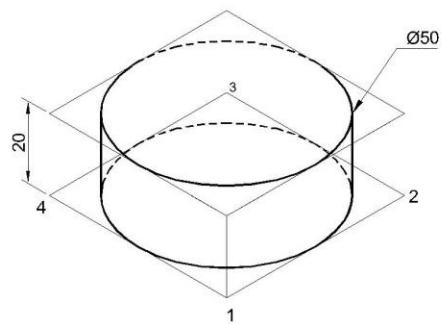
1. CYL. SLAB
D = 50
H = 20
2. SPHERE
D = 40

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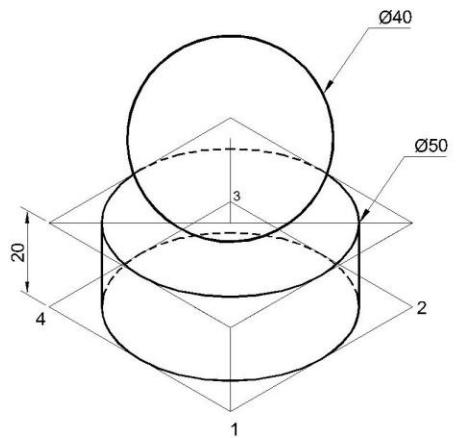
164.2

1. CYL. SLAB
 $D = 50$
 $H = 20$
2. SPHERE
 $D = 40$



164.3

1. CYL. SLAB
 $D = 50$
 $H = 20$
2. SPHERE
 $D = 40$



Q216**ISOMETRIC PROJECTIONS**

141

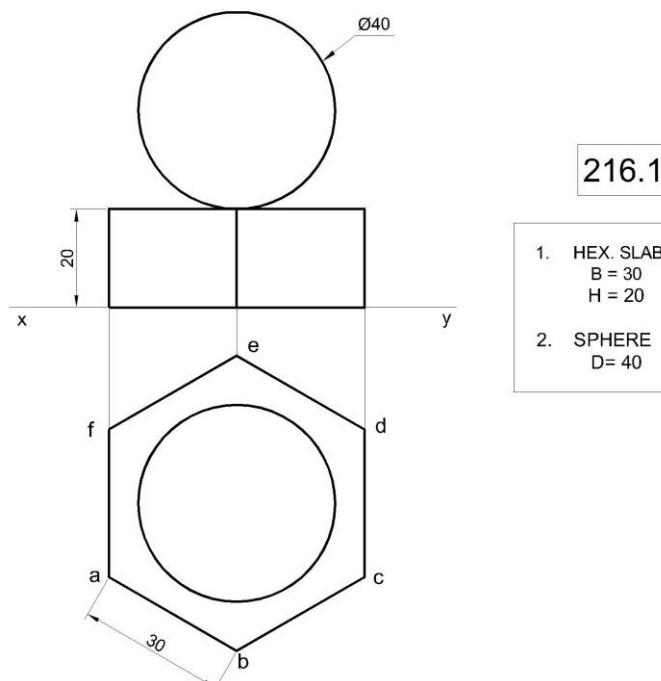
SPHERE ON HEXAGONAL BLOCK

A sphere of radius 20mm is centrally resting on the top surface of a hexagonal block of base edge 30mm and height 20mm. Draw the isometric view of the combination.

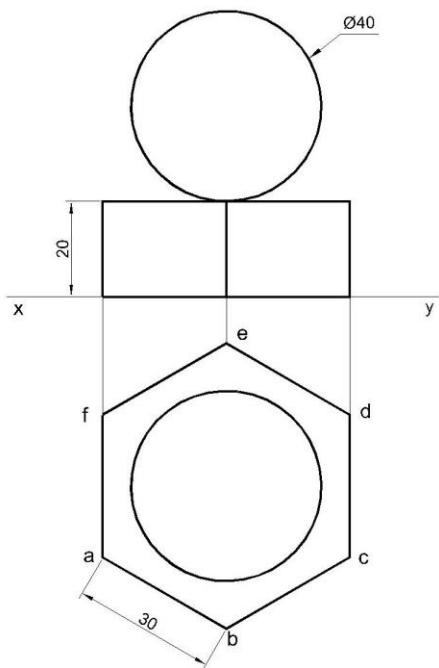
SUMESH 8848440142

HEXAGONAL BLOCK: B- 30mm; H-20mm;**SPHERE R -20mm**

SUMESH 8848440142

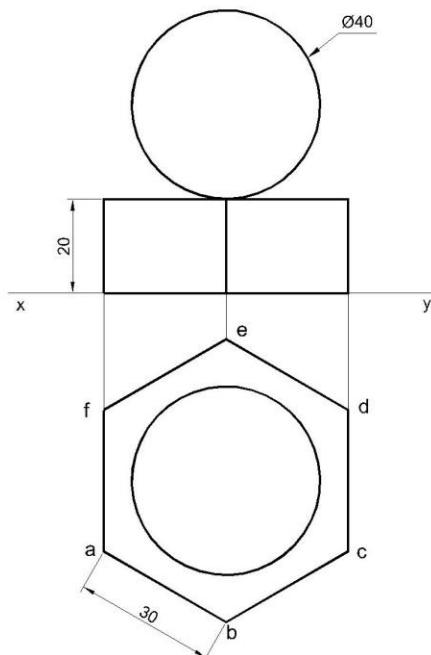
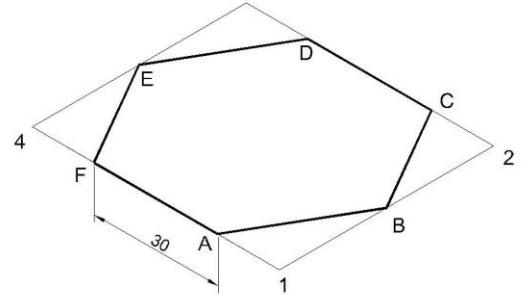


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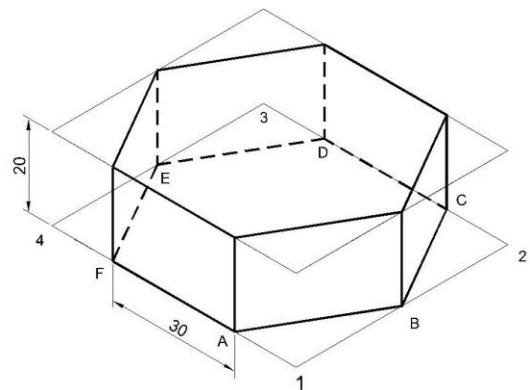
216.1

1. HEX. SLAB
 $B = 30$
 $H = 20$
2. SPHERE
 $D = 40$

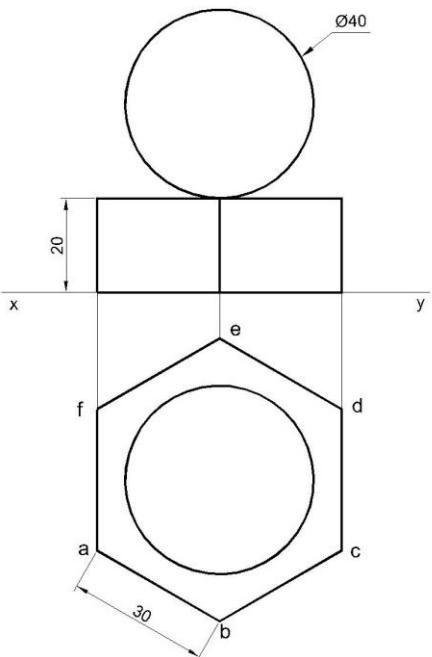


216.1

1. HEX. SLAB
 $B = 30$
 $H = 20$
2. SPHERE
 $D = 40$

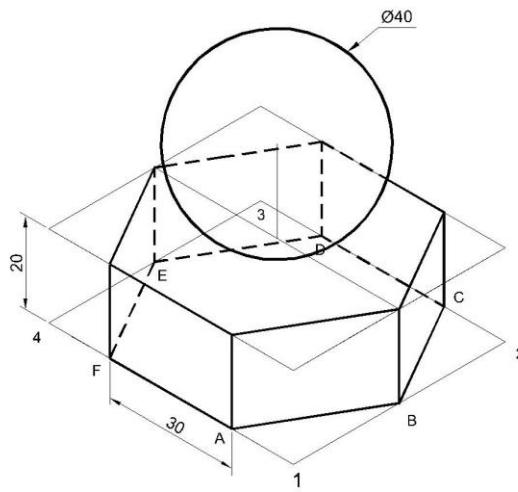


SUMESH 8848440142



216.1

1. HEX. SLAB
 $B = 30$
 $H = 20$
2. SPHERE
 $D = 40$

**Q165****ISOMETRIC PROJECTIONS**

142

HEMISPHERE (FACING UPWARDS) ON FRUSTUM OF CONE

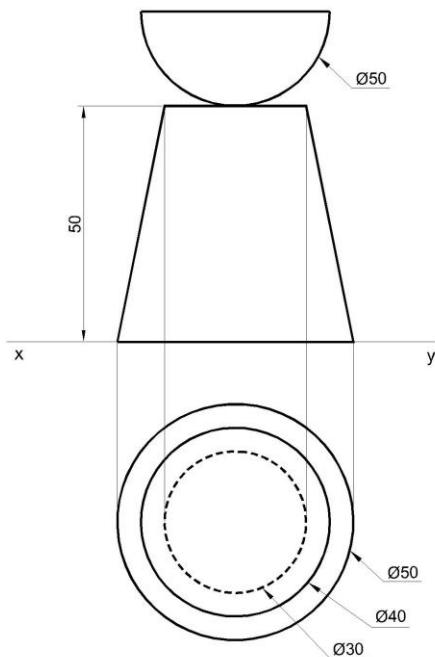
A hemispherical bowl of diameter 40mm placed centrally over a bucket on the shape of a frustum of cone of base bottom diameter 50mm top diameter 30mm and height 50mm. Draw the isometric projections, assume the circular face of the bowl is facing upwards.

SUMESH 8848440142

HEMISPHERE : D- 40mm;**FRUSTUM OF CONE: BD - 50mm; TD -30mm H -50mm**



SUMESH 8848440142

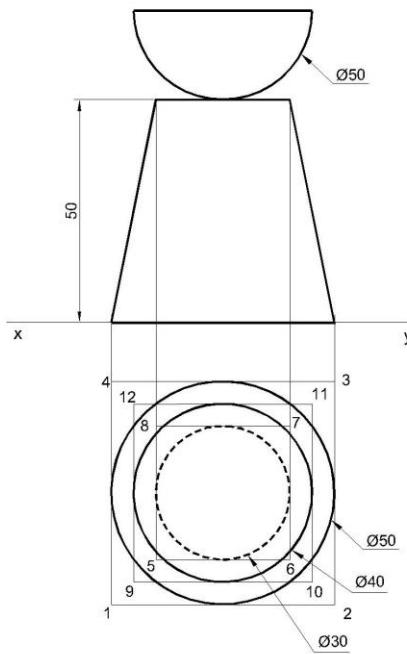


165.1

1. FRUSTUM
BD = 50
TD = 30
H = 50
2. HEMISPHERE
D = 40

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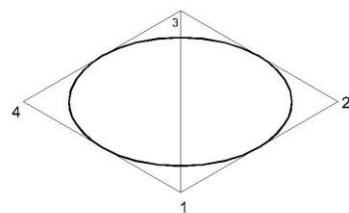
SUMESH 8848440142

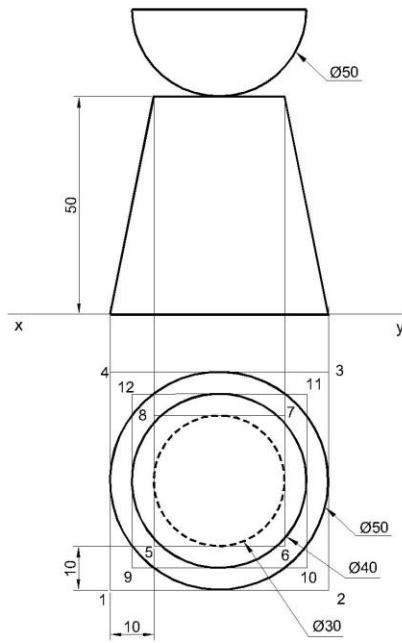


165.2

1. FRUSTUM
BD = 50
TD = 30
H = 50
2. HEMISPHERE
D = 40

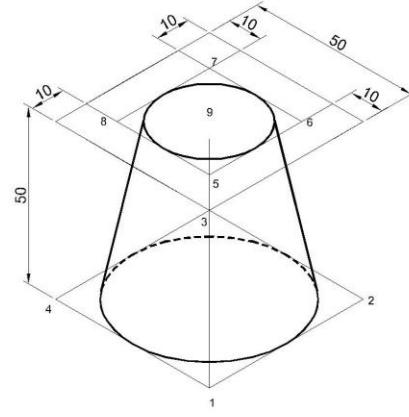
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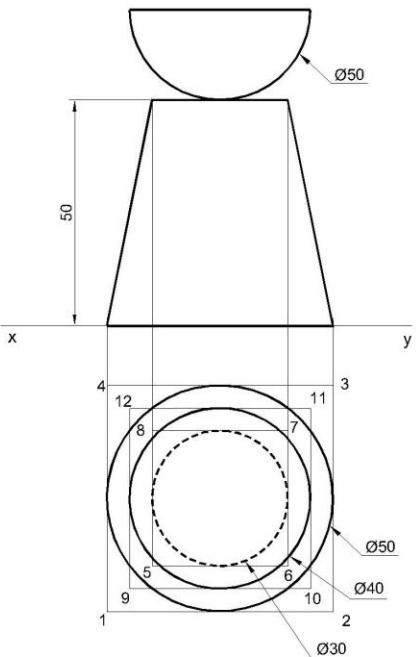


165.3

1. FRUSTUM
BD = 50
TD = 30
H = 50
2. HEMISPHERE
D = 40

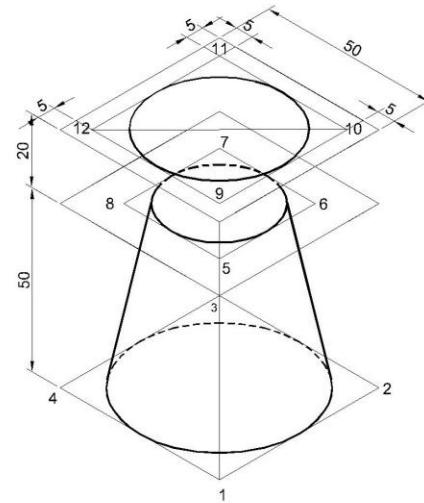


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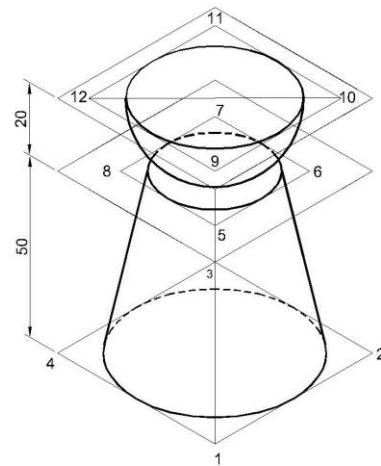
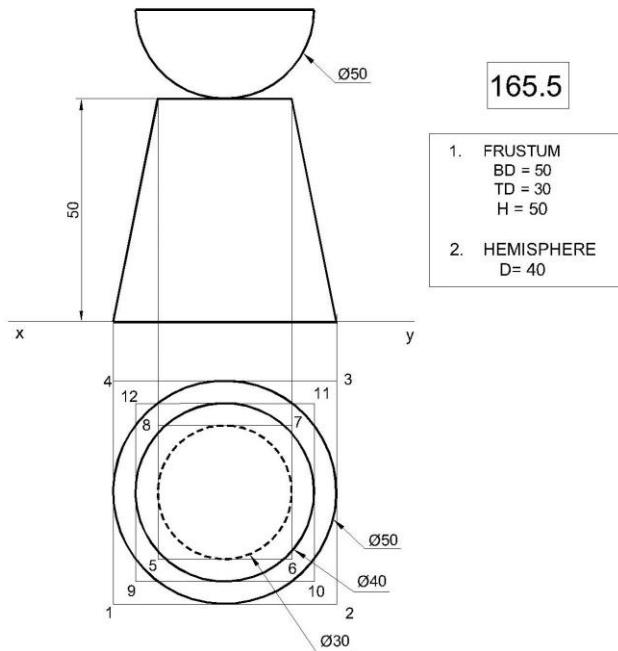
165.4

1. FRUSTUM
BD = 50
TD = 30
H = 50
2. HEMISPHERE
D = 40



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SUMESH 8848440142



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Q217**ISOMETRIC PROJECTIONS**

143

HEMISPHERE ON FRUSTUM OF CONE

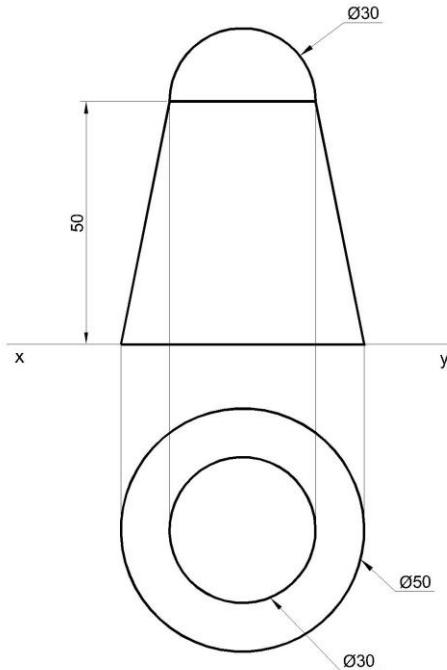
A hemisphere of diameter 30mm is resting on its flat face, centrally on a frustum of cone of bottom diameter 50mm top diameter 30mm and height 50mm. Draw the isometric view of the combination.

SUMESH 8848440142

FRUSTUM OF CONE : BD- 50mm; TD -30mm H-50mm;**HEMISPHERE D -30mm**



SUMESH 8848440142

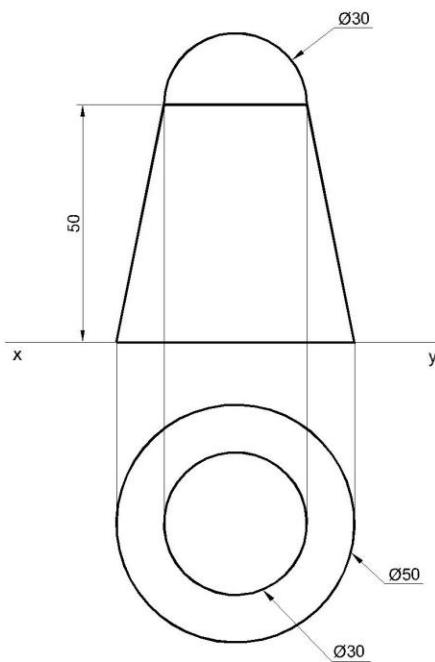


217.1

1. FRUSTUM
BD = 50
TD = 30
H = 50
2. HEMISPHERE
D = 30

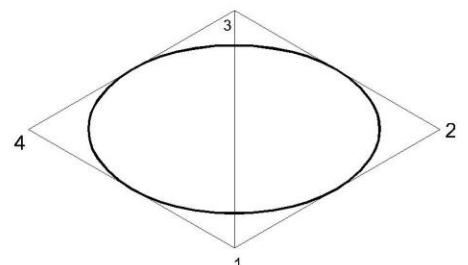
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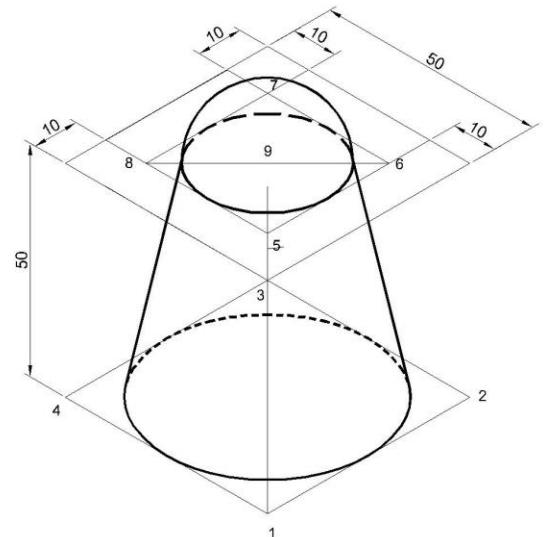
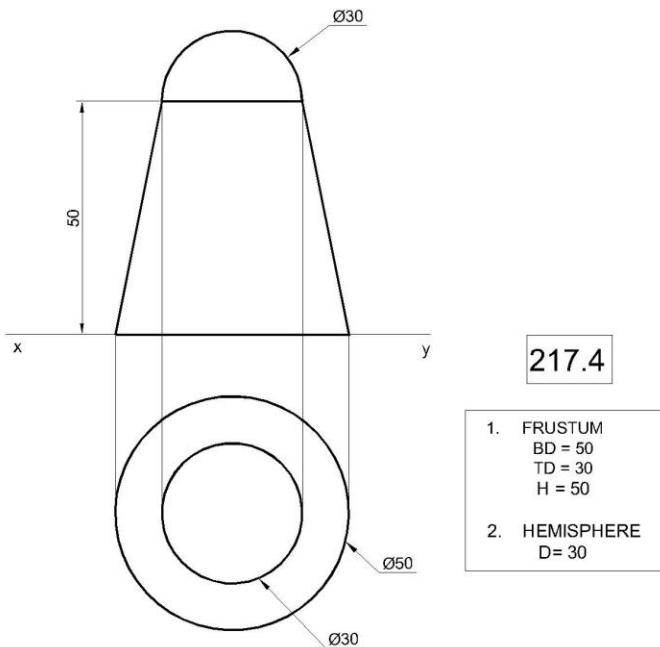
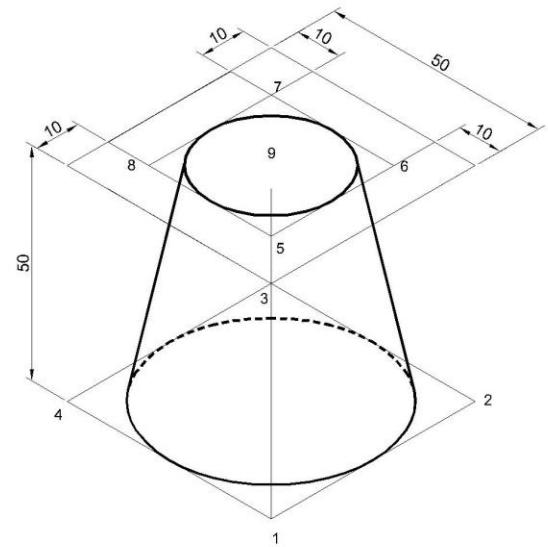
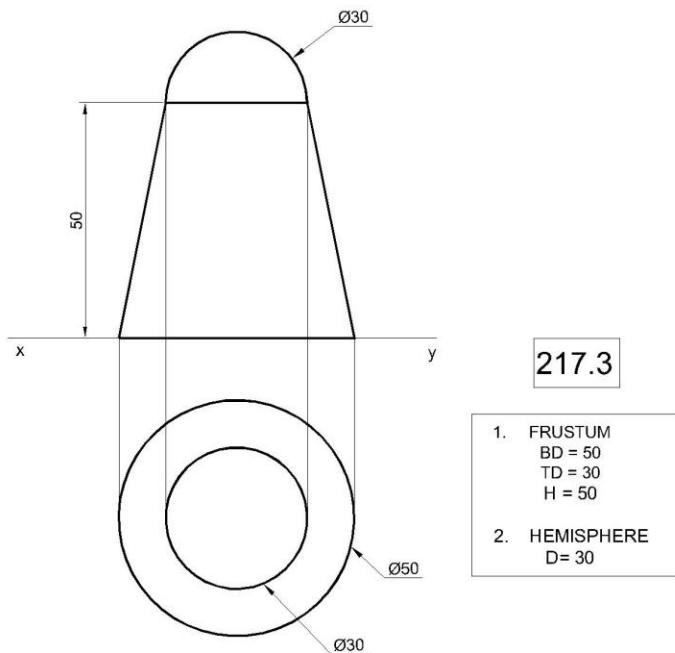
SUMESH 8848440142



217.2

1. FRUSTUM
BD = 50
TD = 30
H = 50
2. HEMISPHERE
D = 30





Q166**ISOMETRIC PROJECTIONS**

144

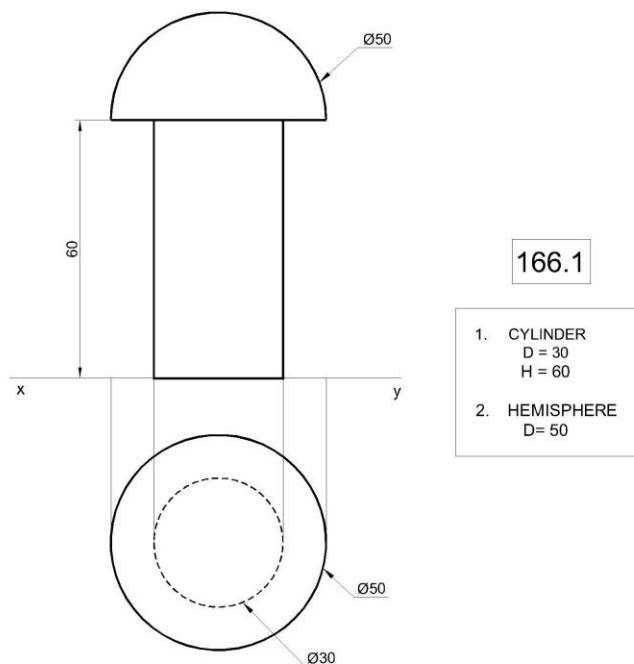
RIVET PROBLEM

A rivet head has the shape of a hemisphere of diameter 50mm and is placed centrally over a cylindrical shank of diameter 30mm and height 60mm. Draw the isometric projection.

SUMESH 8848440142

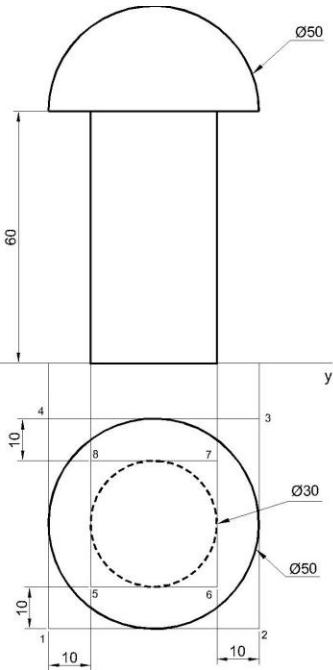
HEMISPHERE : D- 50mm; CYLINDER: D - 30mm; H -60mm

SUMESH 8848440142



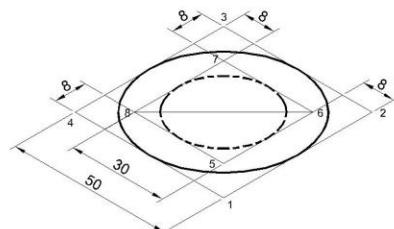
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SUMESH 8848440142



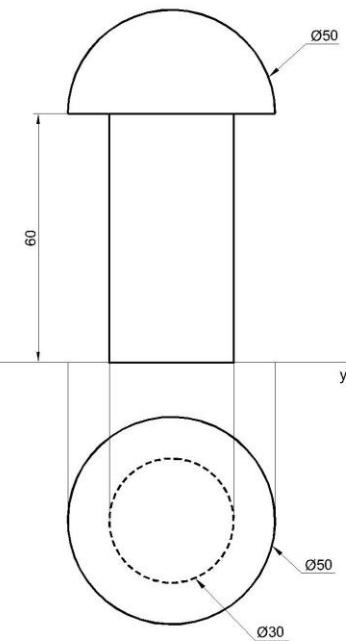
166.2

1. CYLINDER
D = 30
H = 60
2. HEMISPHERE
D= 50



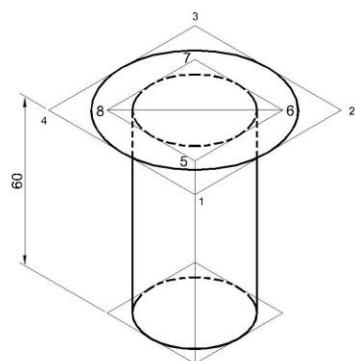
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166.3

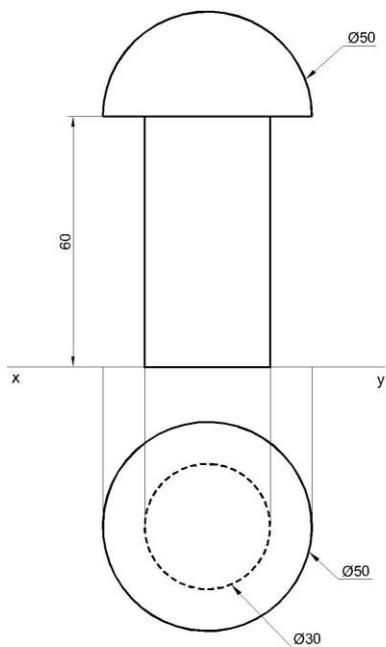
1. CYLINDER
D = 30
H = 60
2. HEMISPHERE
D= 50



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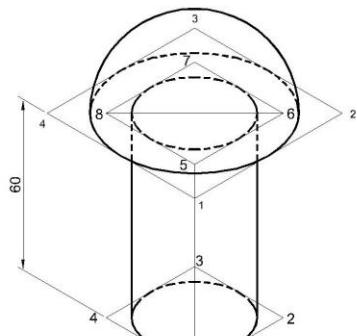


SUMESH 8848440142



166.4

1. CYLINDER
 $D = 30$
 $H = 60$
2. HEMISPHERE
 $D = 50$



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Q167**ISOMETRIC PROJECTIONS**

145

SPHERE ON FRUSTUM OF A HEXAGONAL PYRAMID

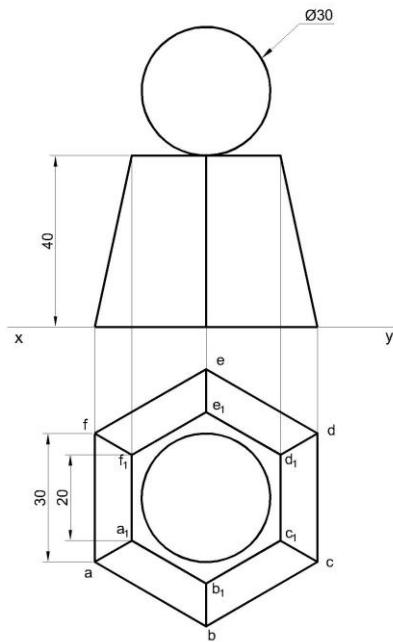
A sphere of diameter 30mm rests centrally on the top of smaller end of a frustum of a hexagonal pyramid. The frustum of pyramid has 20mm sides at the top, 30mm sides at the base and is 40mm high. Draw the isometric projection of the combination of the solids.

SUMESH 8848440142

FRUSTUM OF HEXAGONAL PYRAMID : BB- 30mm; TB -20; H- 40mm;**SPHERE: D-30mm**



SUMESH 8848440142

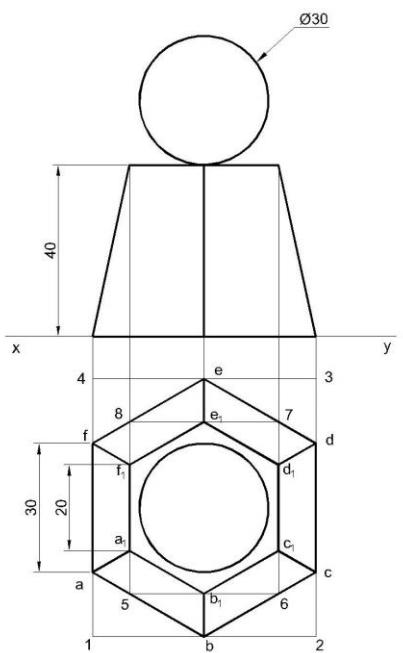


167.1

1. FRUSTUM OF HEX. PRISM
BB = 30
TB = 20
H = 40
2. SPHERE
D = 30

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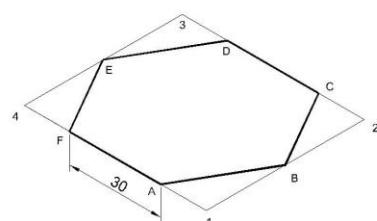
SUMESH 8848440142



167.2

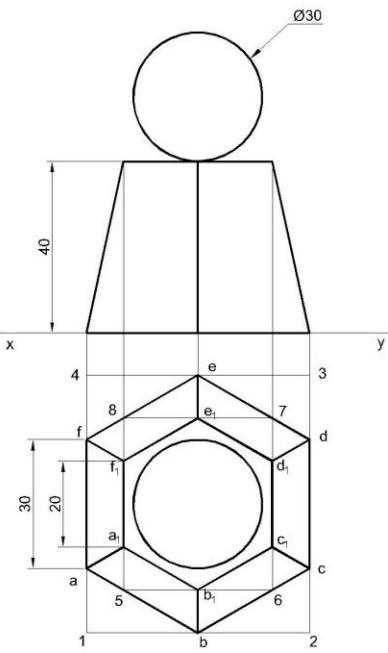
1. FRUSTUM OF HEX. PRISM
BB = 30
TB = 20
H = 40
2. SPHERE
D = 30

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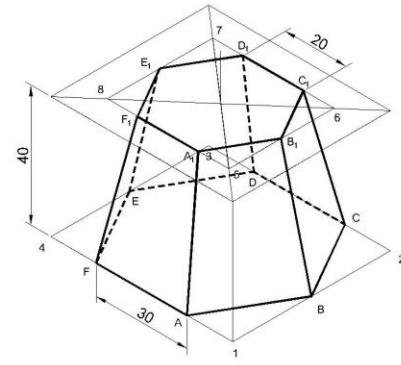




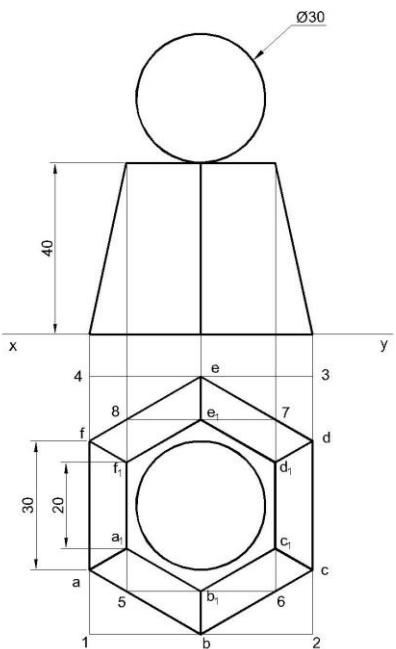
167.3



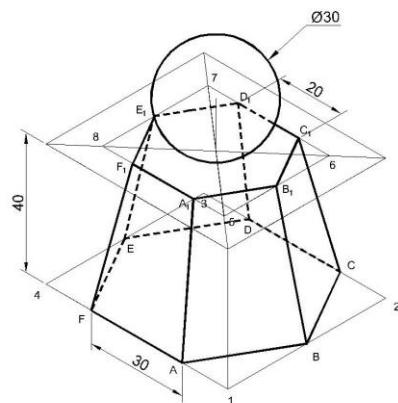
1. FRUSTUM OF HEX. PRISM
BB = 30
TB = 20
H = 40
2. SPHERE
D = 30



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1. FRUSTUM OF HEX. PRISM
BB = 30
TB = 20
H = 40
2. SPHERE
D = 30



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for videos

Q199**ISOMETRIC PROJECTIONS**

146

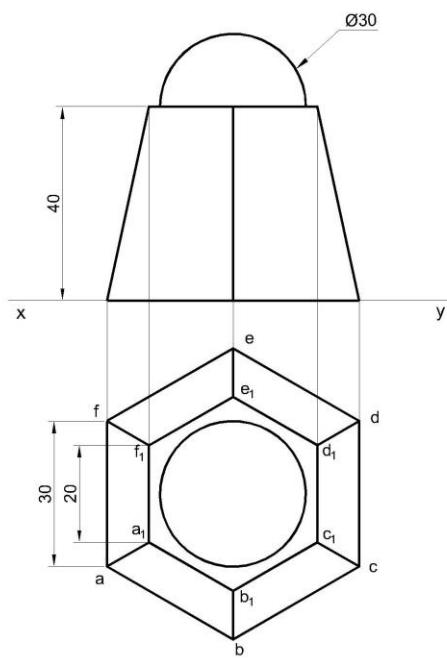
HEMI SPHERE ON FRUSTUM OF HEXAGONAL PYRAMID

A hemisphere with 30mm diameter is rest on its circular base centrally on the top smaller end of a frustum of hexagonal pyramid. The frustum of pyramid has 20mm sides on top end and bottom base of 50mm side and height 40mm. Draw the isometric projection of the combination of solids.

SUMESH 8848440142

FRUSTUM OF HEX.,PYRAMID : BB- 30mm; TB -20mm; H -40mm HEMI SPHERE : D- 30mm

SUMESH 8848440142

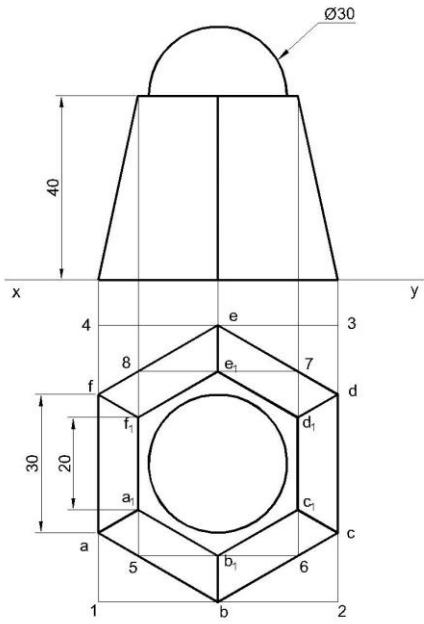


199.1

1. FRUSTUM OF HEX. PRISM
BB = 30
TB = 20
H = 40
2. HEMISPHERE
D = 30

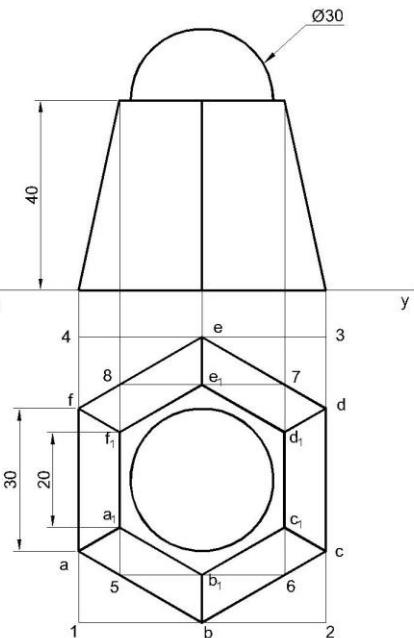
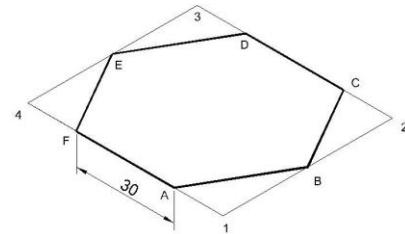
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SUMESH 8848440142



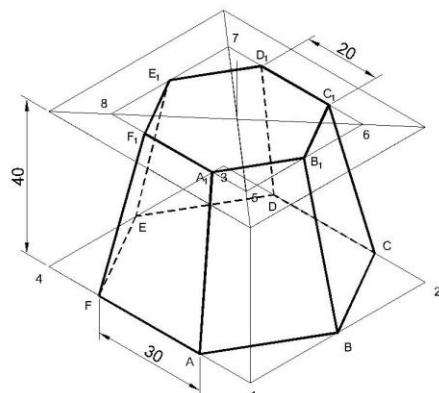
199.2

1. FRUSTUM OF HEX. PRISM
BB = 30
TB = 20
H = 40
2. HEMISPHERE
D = 30



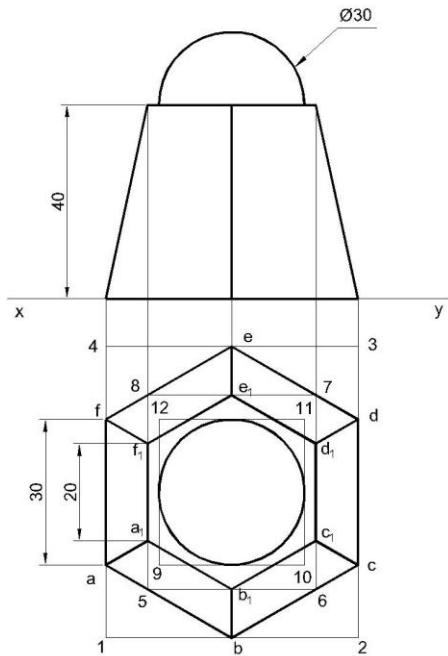
199.3

1. FRUSTUM OF HEX. PRISM
BB = 30
TB = 20
H = 40
2. HEMISPHERE
D = 30



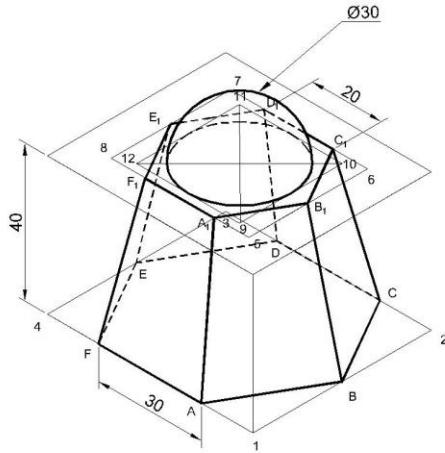
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199.4

1. FRUSTUM OF HEX. PRISM
BB = 30
TB = 20
H = 40
2. HEMISPHERE D = 30



for videos

Q170

ISOMETRIC PROJECTIONS



147

SPHERE ON FRUSTUM OF SQUARE PYRAMID

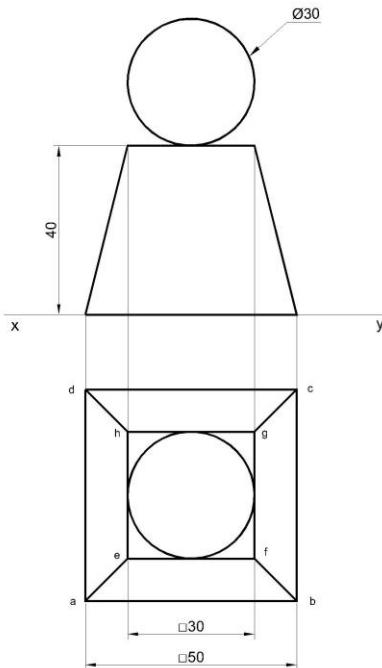
A sphere with 30mm diameter is surmounted centrally on the top of a frustum of square pyramid of bottom base 50mm top base 30mm and height 40mm. Draw the isometric projection of the combination of solids.

SUMESH 8848440142

FRUSTUM OF SQUARE PYRAMID : BB- 50mm; TB -30mm; H -40mm SPHERE : D- 30mm



SUMESH 8848440142

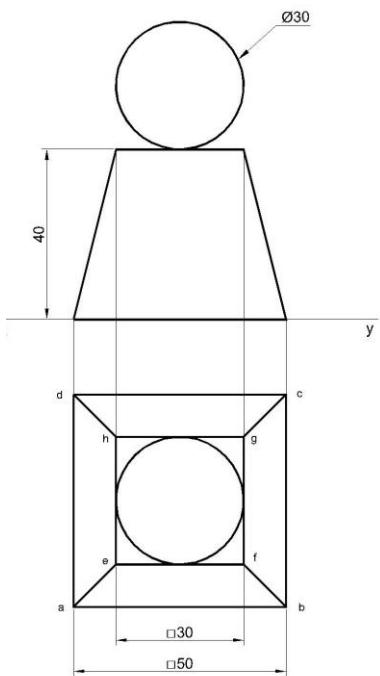


170.1

1. FRUSTUM OF SQ. PYRAMID
BB = 50
TB = 30
H = 40
2. SPHERE
D = 30

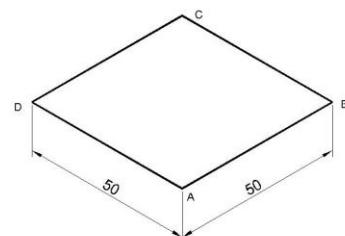
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SUMESH 8848440142



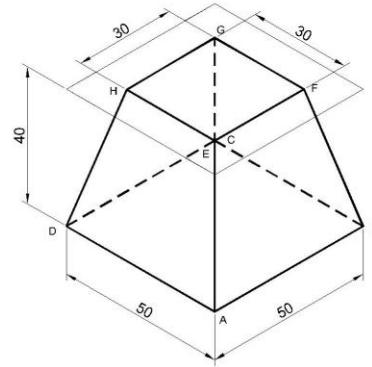
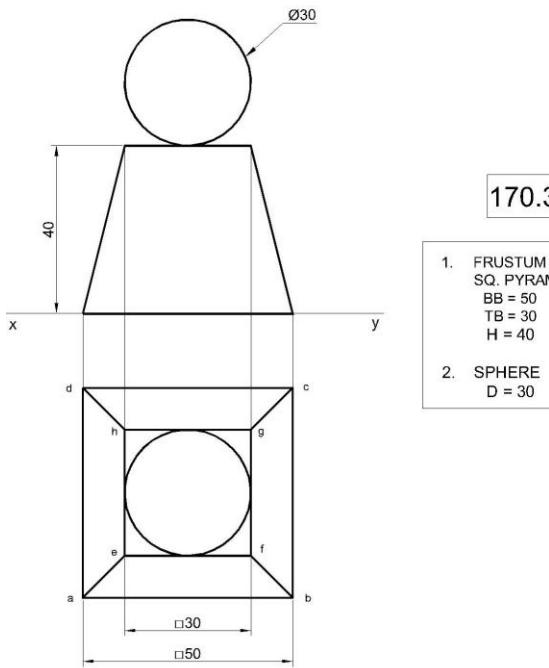
170.2

1. FRUSTUM OF SQ. PYRAMID
BB = 50
TB = 30
H = 40
2. SPHERE
D = 30



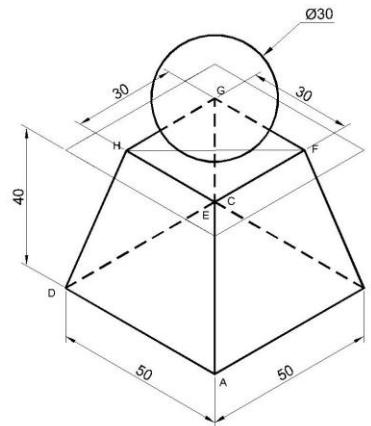
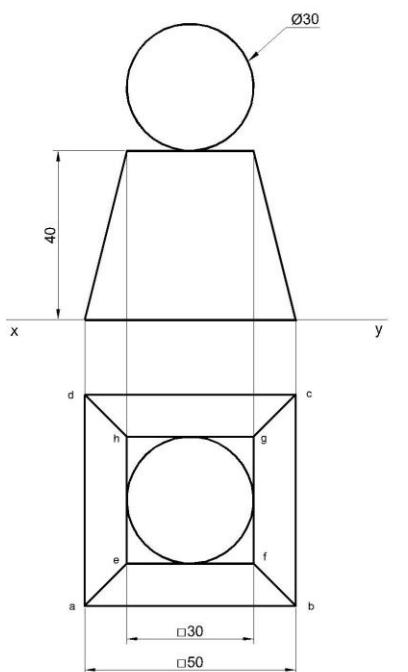
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SUMESH 8848440142



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SUMESH 8848440142



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Q171**ISOMETRIC PROJECTIONS**

148

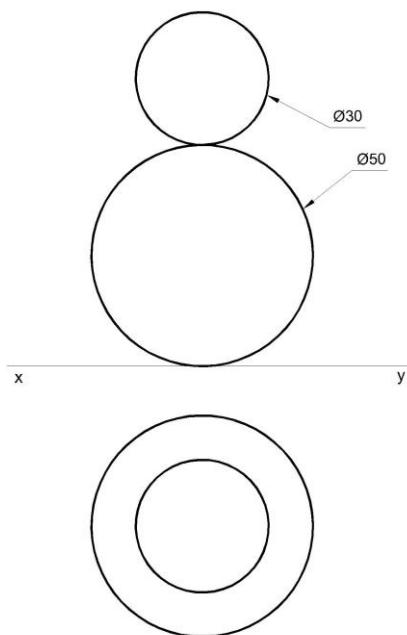
SPHERE ON SPHERE

A sphere with 30mm diameter is surmounted centrally on the top of another sphere of diameter 50mm. Draw the isometric projection of the combination of solids.

SUMESH 8848440142

SPHERE 1: D- 50mm; SPHERE 2 : D- 30mm

SUMESH 8848440142

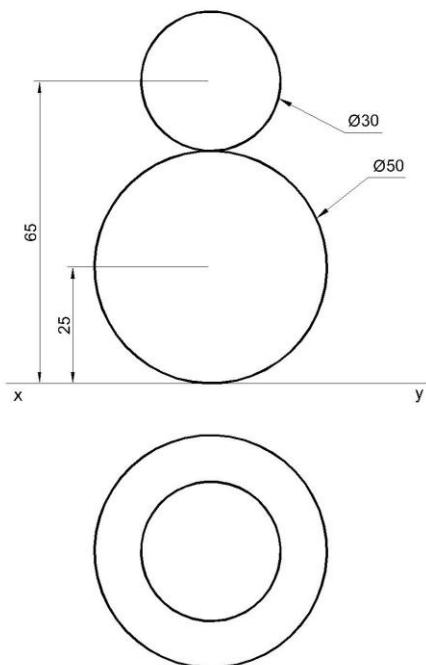


171.1

1. SPHERE 1
D = 50
2. SPHERE 2
D = 30

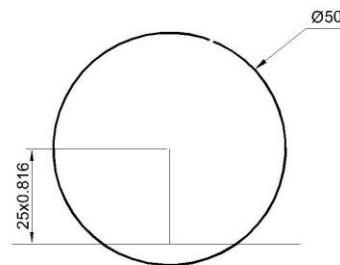
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SUMESH 8848440142



171.2

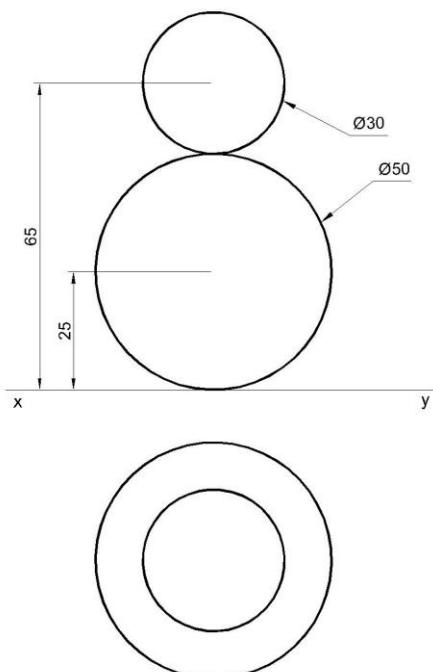
1. SPHERE 1
D = 50
2. SPHERE 2
D = 30



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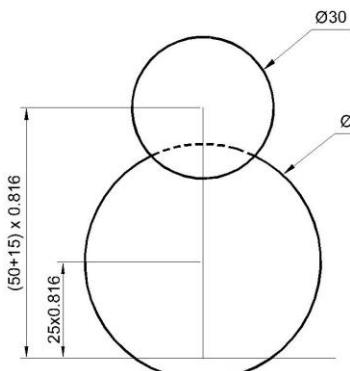


SUMESH 8848440142



171.3

1. SPHERE 1
D = 50
2. SPHERE 2
D = 30



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Q174**ISOMETRIC PROJECTIONS**

149

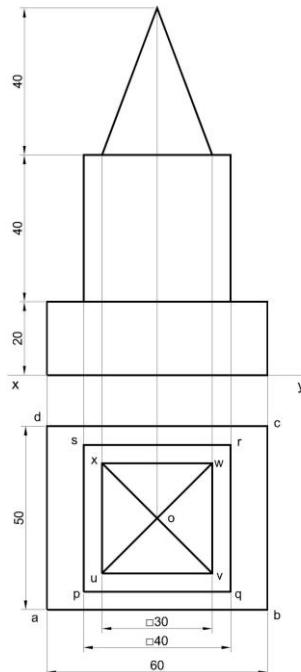
SQUARE PYRAMID - ON - CUBE - ON - RECTANGULAR SLAB

A rectangular slab 60mm x 50mm x 20mm is surmounted by a cube of 40mm side. On the top of the cube, rests a square pyramid of altitude 40mm and base edge 30mm. The axis of the solids are in the same straight line. Draw the isometric projection.

SUMESH 8848440142

RECT ANGULAR SLAB : 60x50x20mm; CUBE B- 40mm ; SQUARE PYRAMID: B-30mm & H-40mm

SUMESH 8848440142

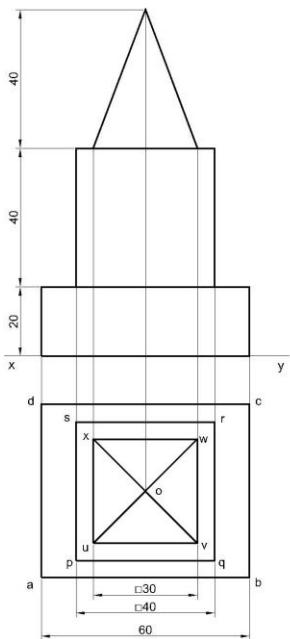


174.1

1. RECT. PRISM
B = 60
D = 50
H = 20
2. CUBE
B = 40
3. SQ. PYRAMID
B = 30
H = 40

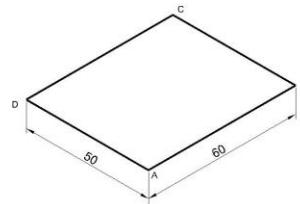
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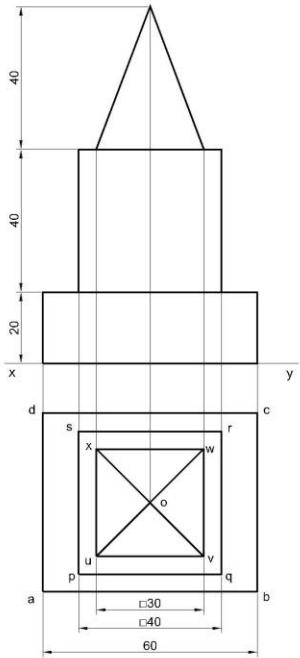
174.2

1. RECT. PRISM
 $B = 60$
 $D = 50$
 $H = 20$
2. CUBE
 $B = 40$
3. SQ. PYRAMID
 $B = 30$
 $H = 40$



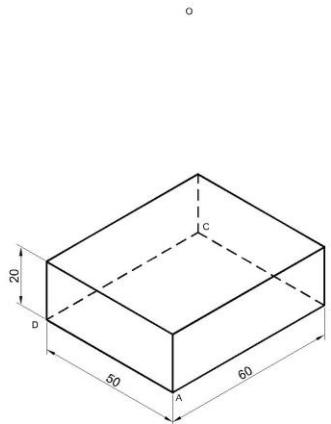
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SUMESH 8848440142



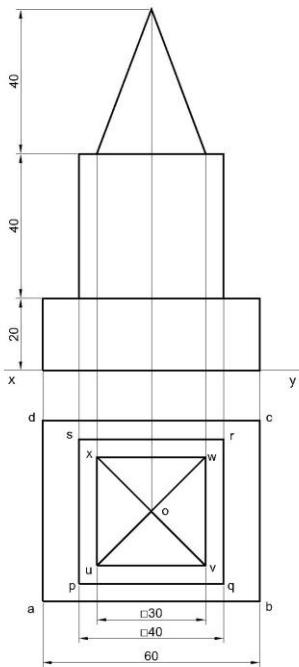
174.3

1. RECT. PRISM
 $B = 60$
 $D = 50$
 $H = 20$
2. CUBE
 $B = 40$
3. SQ. PYRAMID
 $B = 30$
 $H = 40$



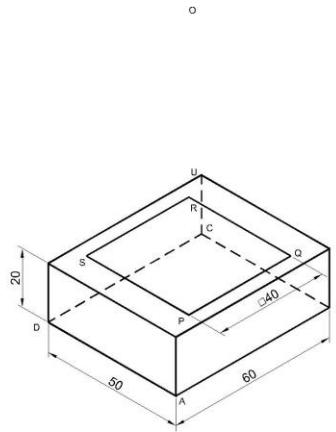
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SUMESH 8848440142



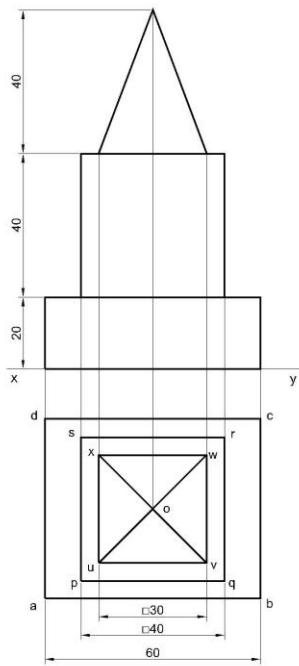
174.4

1. RECT. PRISM
 $B = 60$
 $D = 50$
 $H = 20$
2. CUBE
 $B = 40$
3. SQ. PYRAMID
 $B = 30$
 $H = 40$



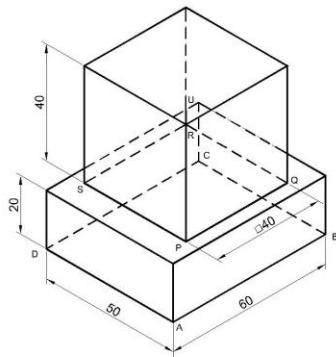
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SUMESH 8848440142



174.5

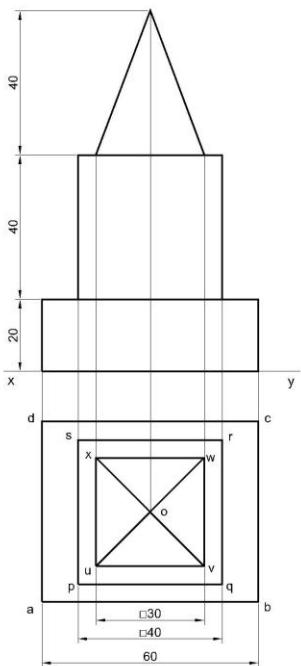
1. RECT. PRISM
 $B = 60$
 $D = 50$
 $H = 20$
2. CUBE
 $B = 40$
3. SQ. PYRAMID
 $B = 30$
 $H = 40$



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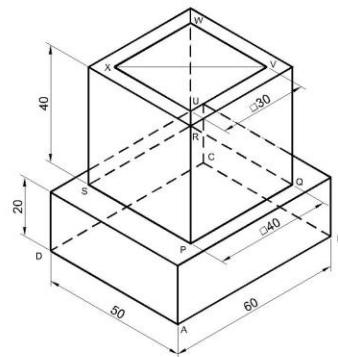


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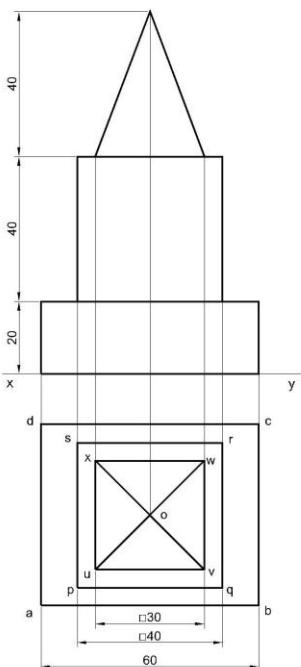
174.6

1. RECT. PRISM
 $B = 60$
 $D = 50$
 $H = 20$
2. CUBE
 $B = 40$
3. SQ. PYRAMID
 $B = 30$
 $H = 40$



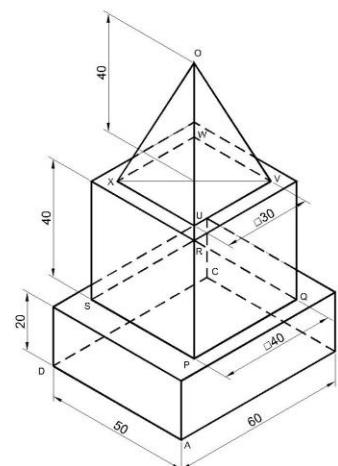
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SUMESH 8848440142



174.7

1. RECT. PRISM
 $B = 60$
 $D = 50$
 $H = 20$
2. CUBE
 $B = 40$
3. SQ. PYRAMID
 $B = 30$
 $H = 40$



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Q175**ISOMETRIC PROJECTIONS**

150

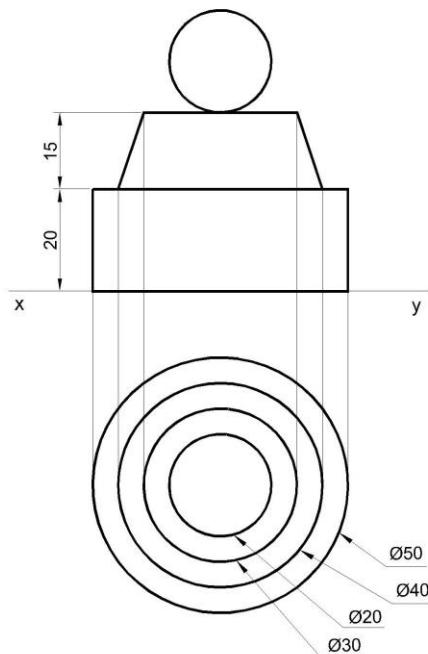
SPHERE - ON -FRUSTUM OF CONE - ON - CYLINDER

A frustum of a cone of bottom diameter 40mm top diameter 30mm and height 15mm is surmounted by a sphere of diameter 20mm side. The frustum is placed over a cylindrical slab of diameter 50mm and height 20mm. The axis of the solids are in the same straight line. Draw the isometric projection.

SUMESH 8848440142

CYLINDER : D50 x H20 ; FRUSTUM OF CONE: BD40 x TD30 x H15 ; SPHERE: D=20mm

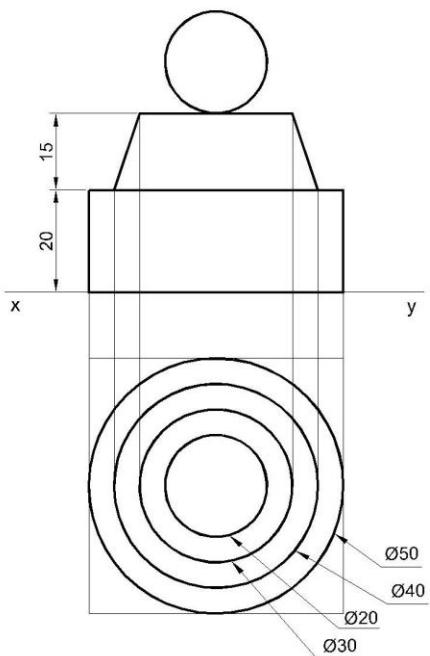
SUMESH 8848440142



175.1

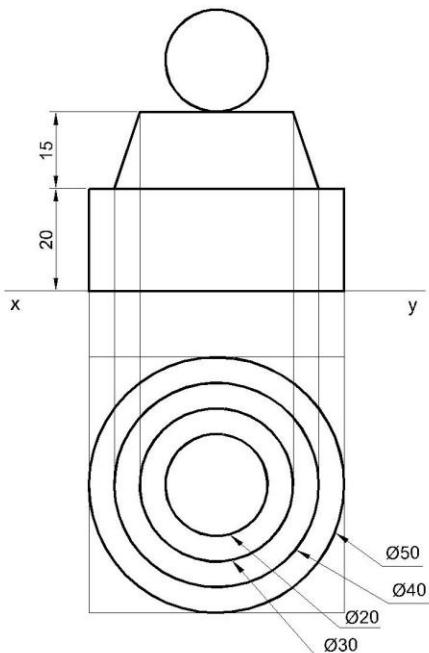
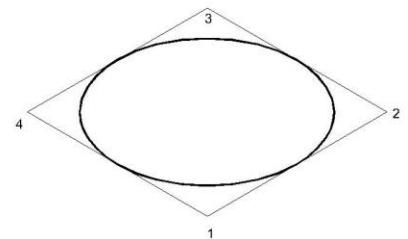
1. CYLINDER
D = 50
H = 20
2. FRUSTUM OF CONE
BD = 40
TD = 30
H = 15
3. SPHERE
D = 20

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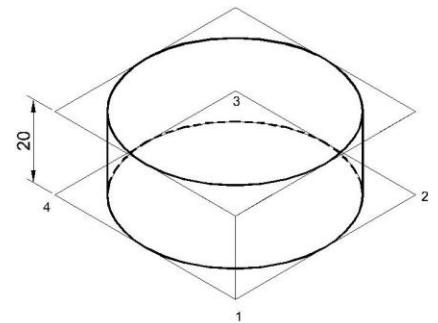
175.2

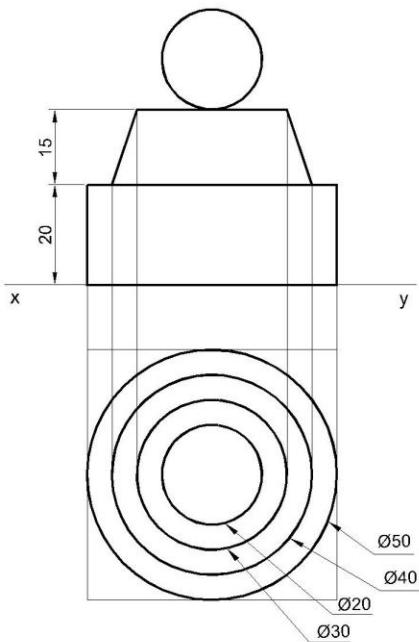
1. CYLINDER
 $D = 50$
 $H = 20$
2. FRUSTUM OF CONE
 $BD = 40$
 $TD = 30$
 $H = 15$
3. SPHERE
 $D = 20$



175.3

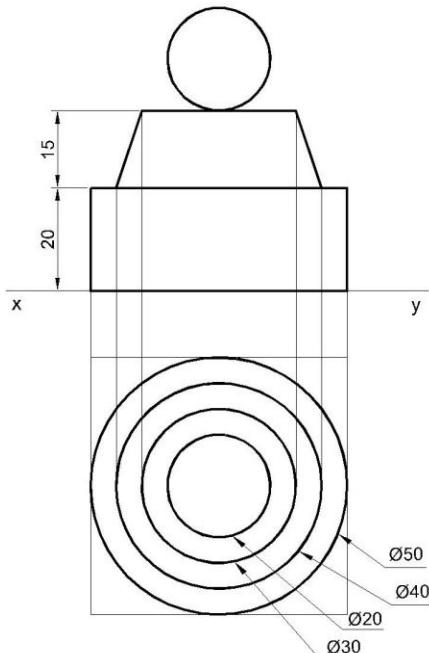
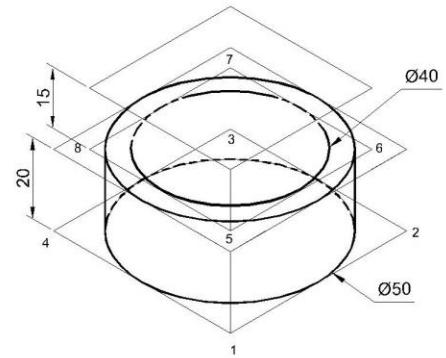
1. CYLINDER
 $D = 50$
 $H = 20$
2. FRUSTUM OF CONE
 $BD = 40$
 $TD = 30$
 $H = 15$
3. SPHERE
 $D = 20$





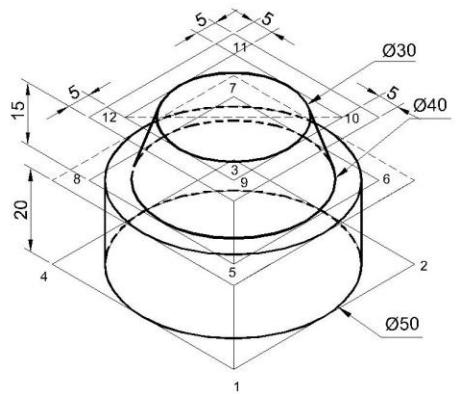
175.5

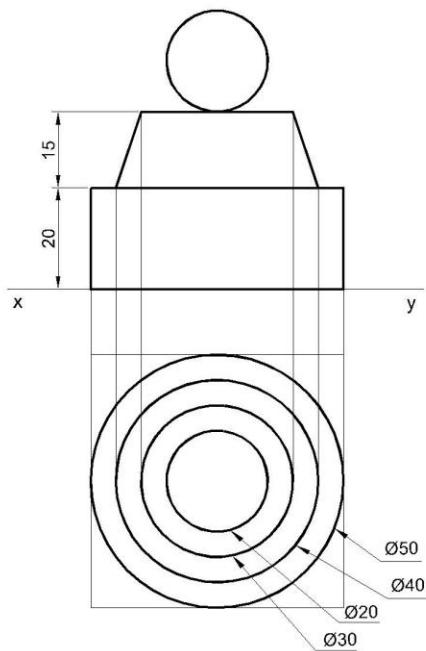
1. CYLINDER
 $D = 50$
 $H = 20$
2. FRUSTUM OF CONE
 $BD = 40$
 $TD = 30$
 $H = 15$
3. SPHERE
 $D = 20$



175.6

1. CYLINDER
 $D = 50$
 $H = 20$
2. FRUSTUM OF CONE
 $BD = 40$
 $TD = 30$
 $H = 15$
3. SPHERE
 $D = 20$





175.7

1. CYLINDER
D = 50
H = 20
2. FRUSTUM OF CONE
BD = 40
TD = 30
H = 15
3. SPHERE
D = 20

