

THIRD ANGLE ORTHOGRAPHIC DRAWING

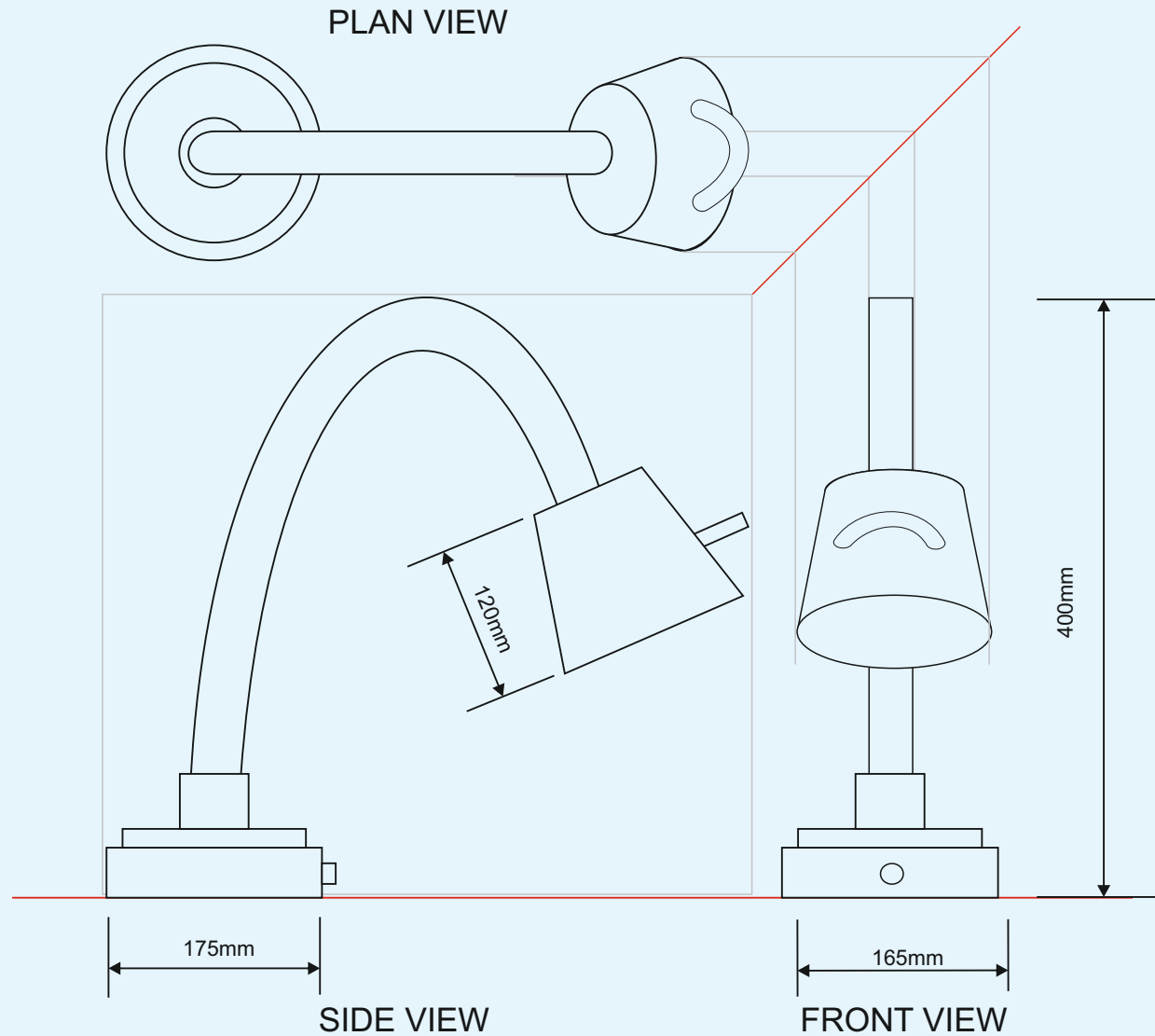
WORLD ASSOCIATION OF TECHNOLOGY TEACHERS

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EXERCISE BOOK ONE



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THIRD ANGLE ORTHOGRAPHIC DRAWING

HELPFUL LINKS:

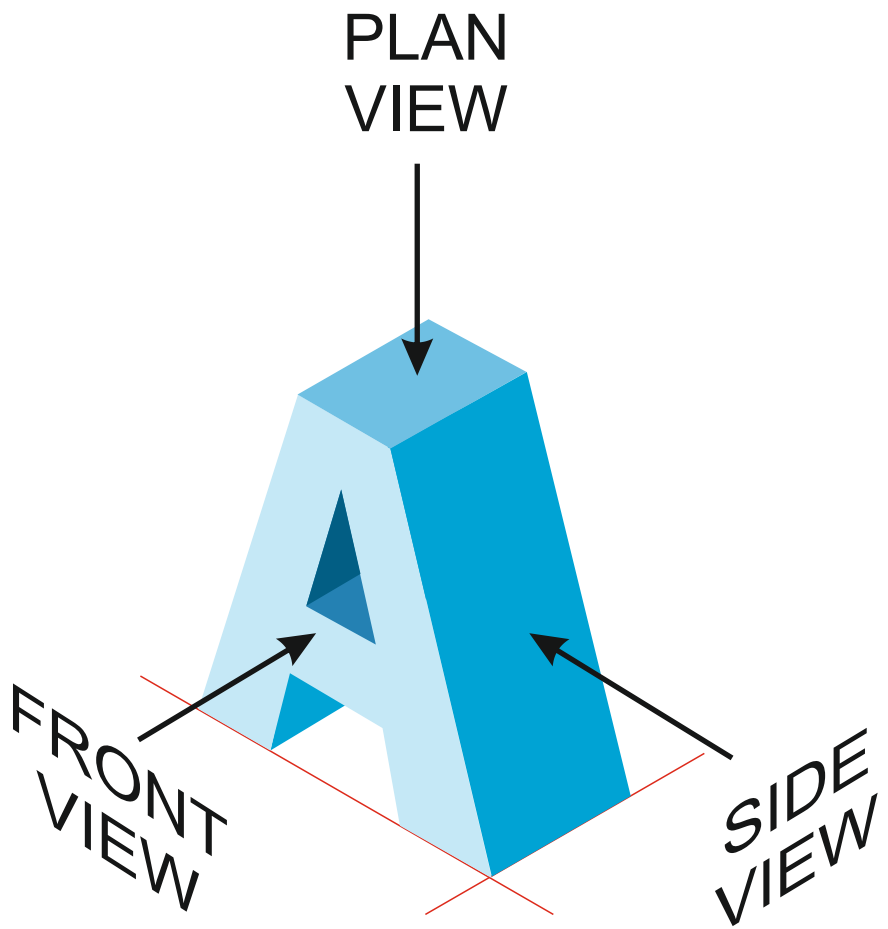
https://technologystudent.com/despro_f1sh/third1.html

■ PROJECTION / GUIDE LINES

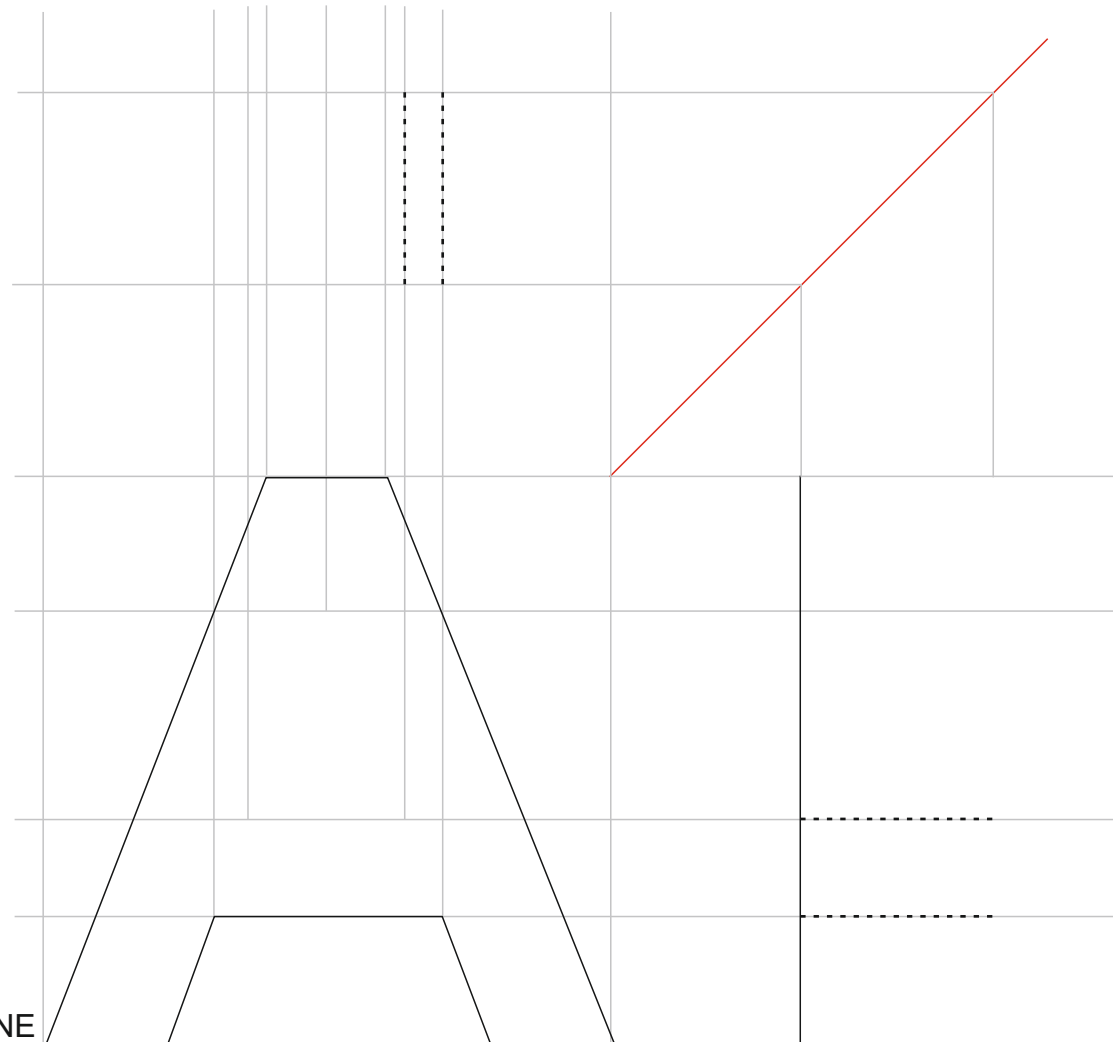
■ 45 DEGREE PROJECTION / GUIDE LINE (for the plan view)



Complete the orthographic drawing of the letter, 'A' in third angle projection.



PLAN VIEW



PLEASE ESTIMATE ALL MEASUREMENTS

BASE LINE

FRONT VIEW

SIDE VIEW

THIRD ANGLE ORTHOGRAPHIC DRAWING

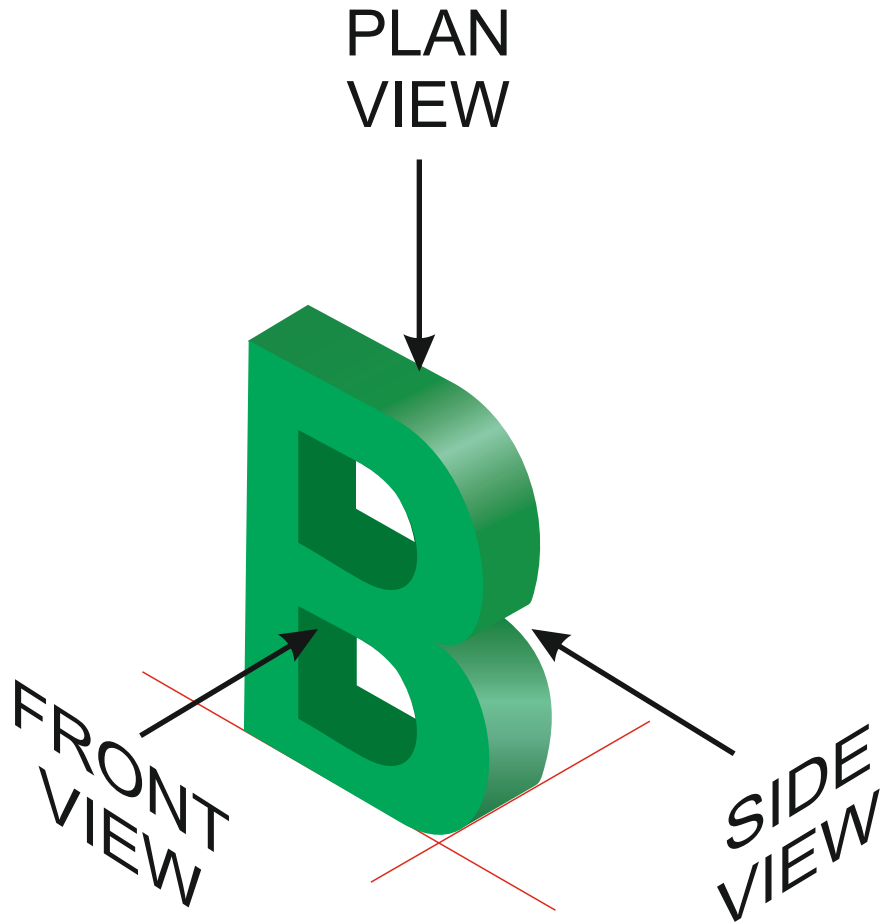
HELPFUL LINKS:

https://technologystudent.com/despro_f1sh/third2.html

- PROJECTION / GUIDE LINES
- 45 DEGREE PROJECTION / GUIDE LINE (for the plan view)



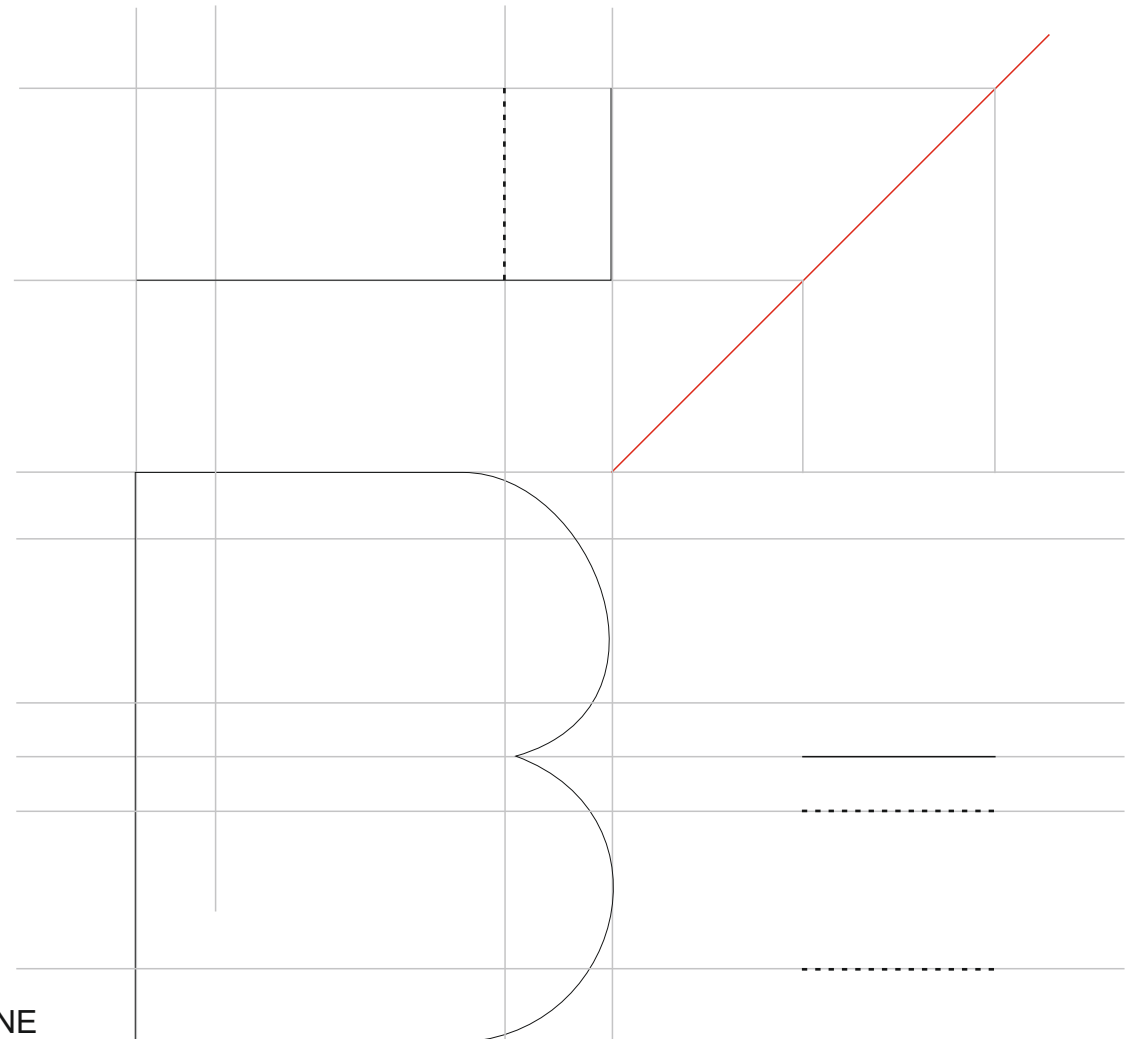
Complete the orthographic drawing of the letter, 'B' in third angle projection.



PLEASE ESTIMATE ALL MEASUREMENTS

BASE LINE

PLAN VIEW



FRONT VIEW

SIDE VIEW

THIRD ANGLE ORTHOGRAPHIC DRAWING

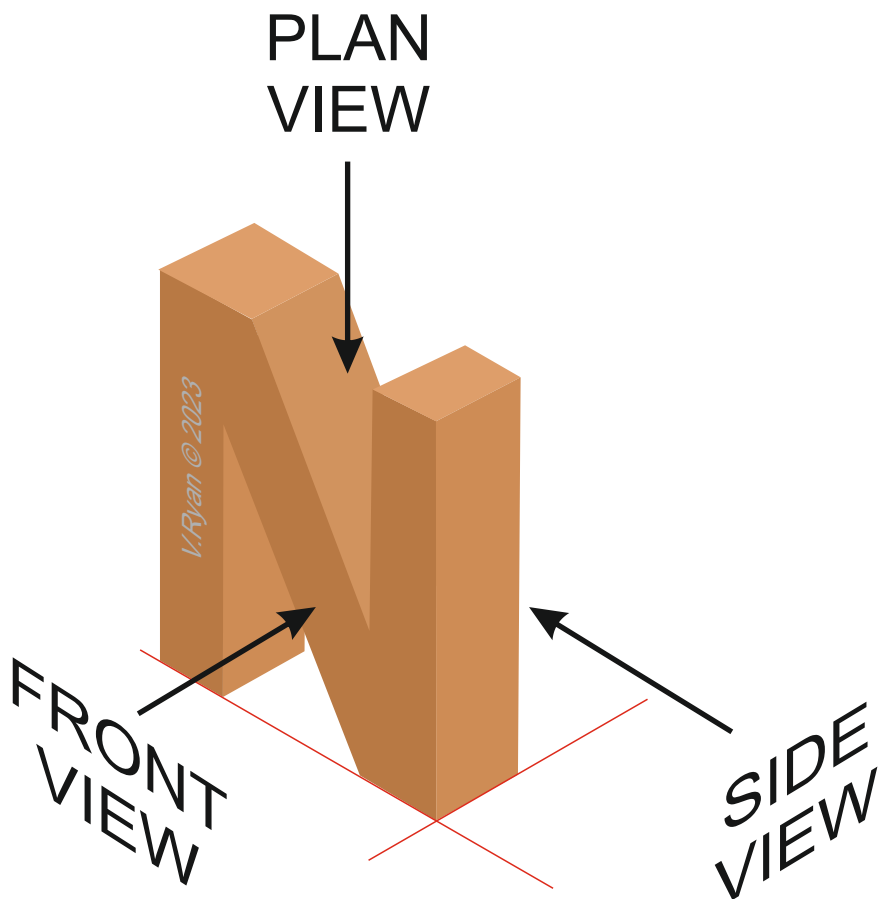
HELPFUL LINKS:

https://technologystudent.com/despro_f1sh/third3.html

- PROJECTION / GUIDE LINES
- 45 DEGREE PROJECTION / GUIDE LINE (for the plan view)



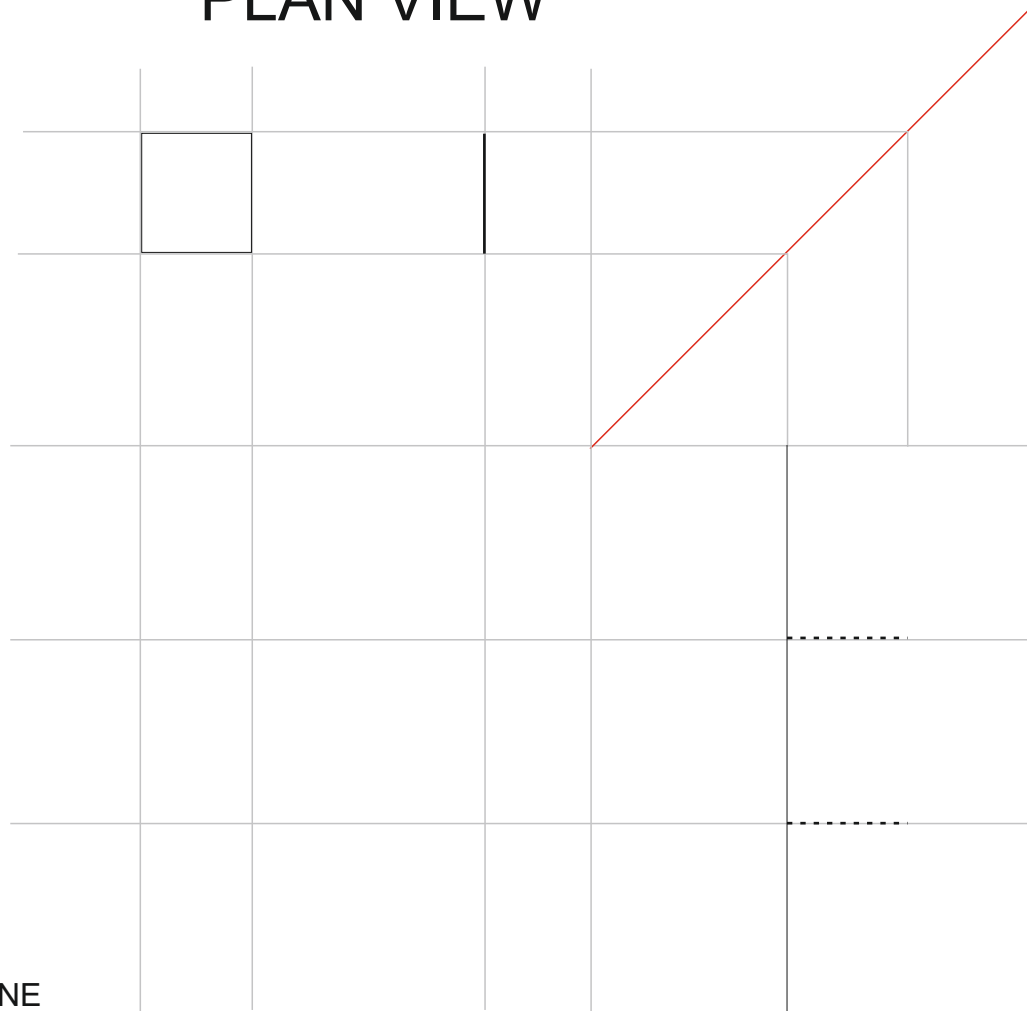
Complete the orthographic drawing of the letter 'N', in third angle projection.



PLEASE ESTIMATE ALL MEASUREMENTS

BASE LINE

PLAN VIEW



FRONT VIEW

SIDE VIEW

THIRD ANGLE ORTHOGRAPHIC DRAWING

HELPFUL LINKS:

https://technologystudent.com/despro_f1sh/third4.html

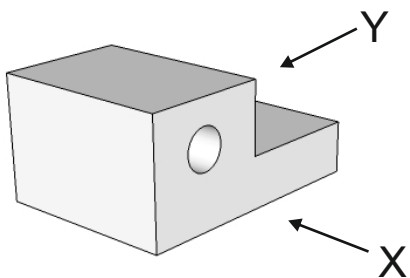
HELPFUL LINK



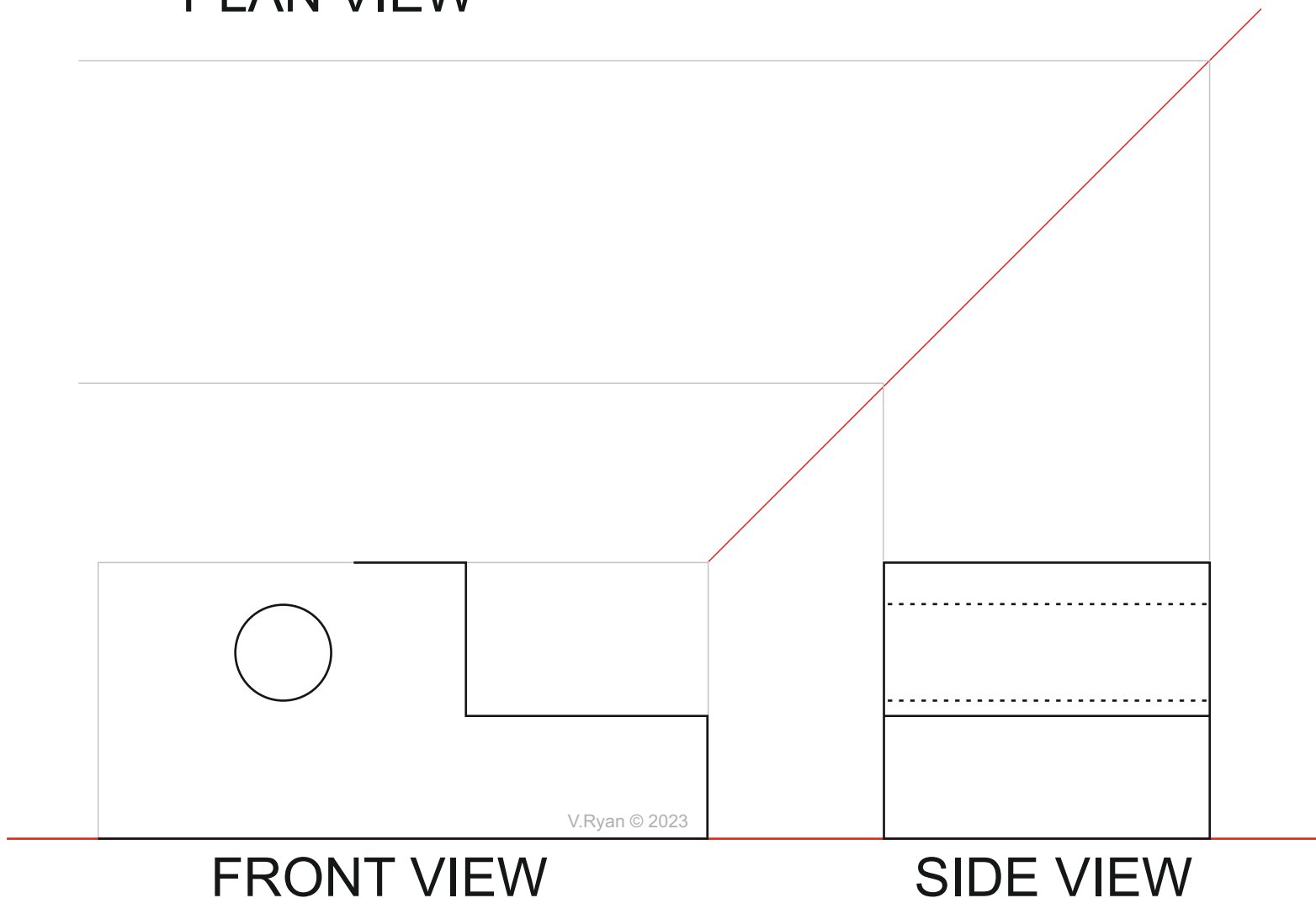
Complete the orthographic drawings of the 3D objects by adding the missing lines. Remember that hidden detail is represented by a dotted line. The arrow 'X' indicates the front view. Arrow 'Y' indicates the side view. Add five dimensions. (Use a ruler to measure from the completed views)

PLAN VIEW

3D DRAWING



**PLEASE ESTIMATE
ALL MEASUREMENTS**



THIRD ANGLE ORTHOGRAPHIC DRAWING

HELPFUL LINKS:

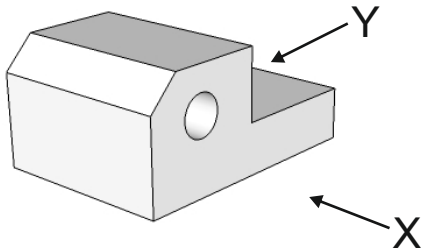
https://technologystudent.com/despro_fish/third5.html

HELPFUL LINK



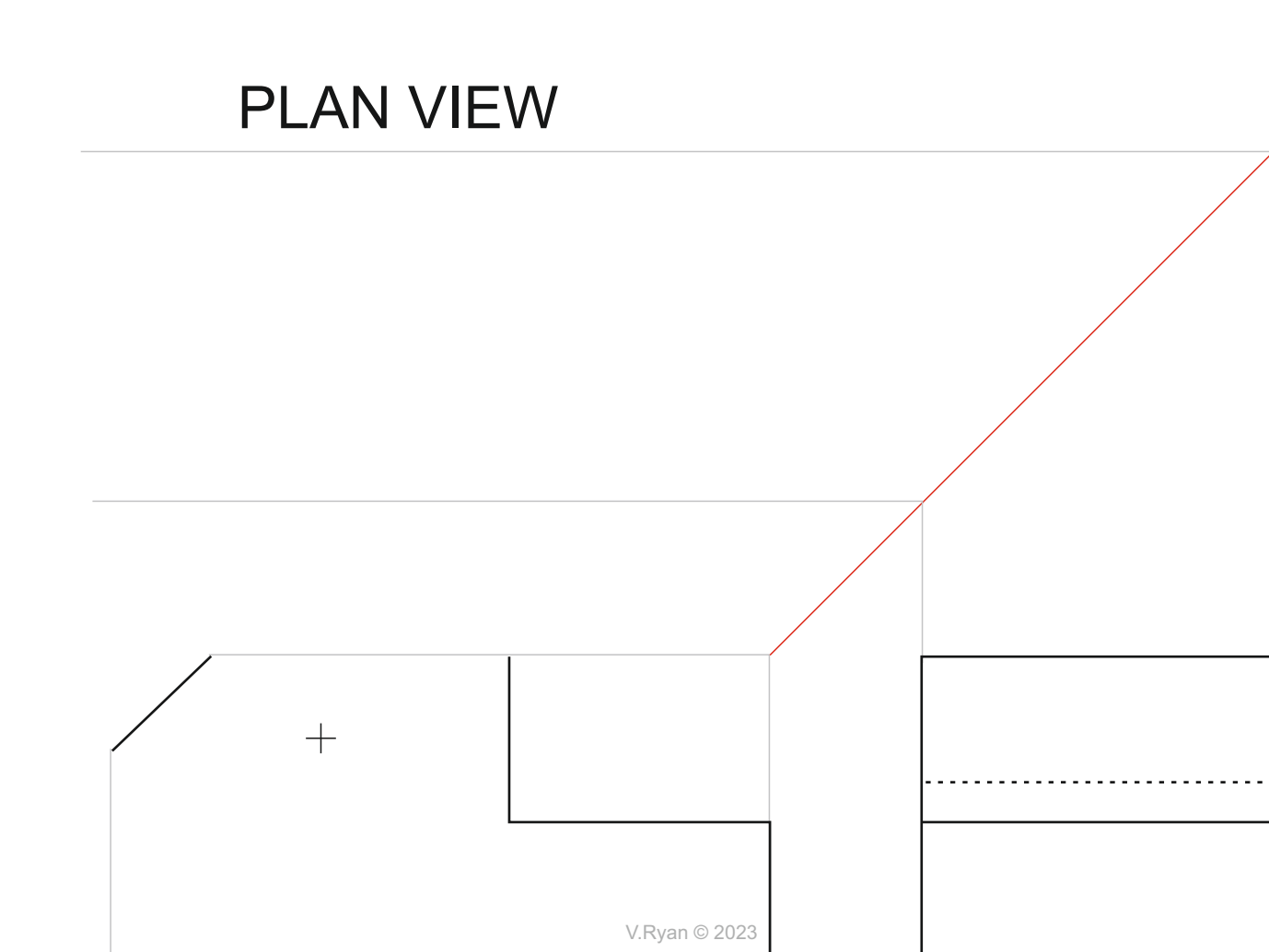
Complete the orthographic drawings of the 3D objects by adding the missing lines. Remember that hidden detail is represented by a dotted line. The arrow 'X' indicates the front view. Arrow 'Y' indicates the side view. Add six dimensions. (Use a ruler to measure from the completed views)

3D DRAWING



PLAN VIEW

**PLEASE ESTIMATE
ALL MEASUREMENTS**



FRONT VIEW

SIDE VIEW

THIRD ANGLE ORTHOGRAPHIC DRAWING

HELPFUL LINKS:

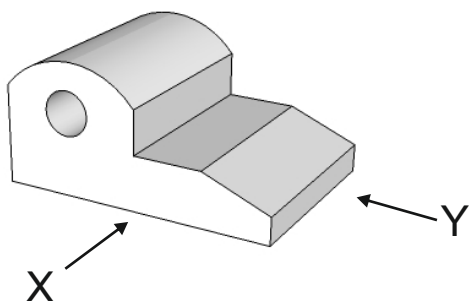
https://technologystudent.com/despro_f1sh/third6.html

HELPFUL LINK

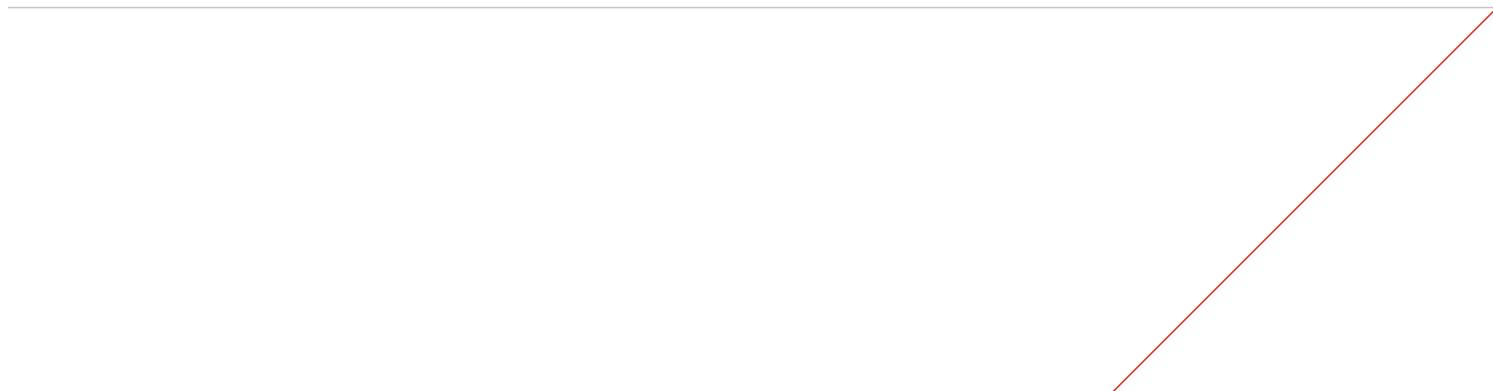


Complete the orthographic drawings of the 3D objects by adding the missing lines. Remember that hidden detail is represented by a dotted line. The arrow 'X' indicates the front view. Arrow 'Y' indicates the side view. Add six dimensions. (Use a ruler to measure from the completed views)

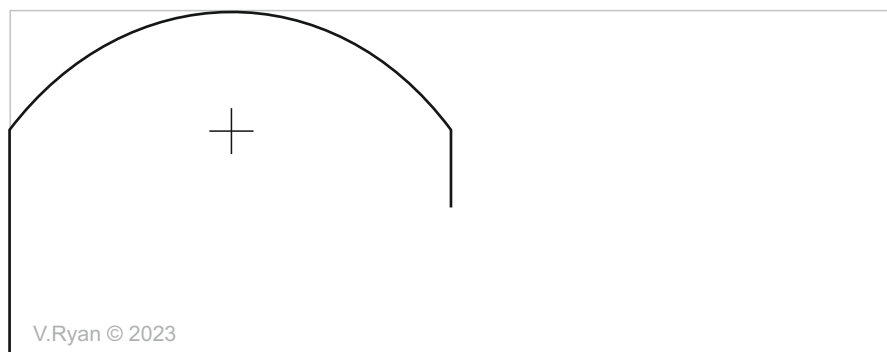
3D DRAWING



PLAN VIEW



PLEASE ESTIMATE ALL MEASUREMENTS



FRONT VIEW



SIDE VIEW

THIRD ANGLE ORTHOGRAPHIC DRAWING

HELPFUL LINKS:

https://technologystudent.com/despro_f1sh/third7.html

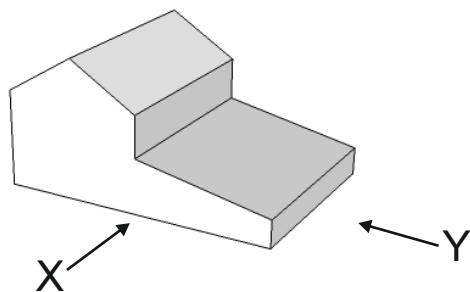
HELPFUL LINK



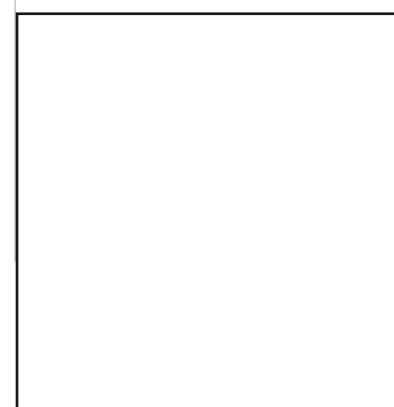
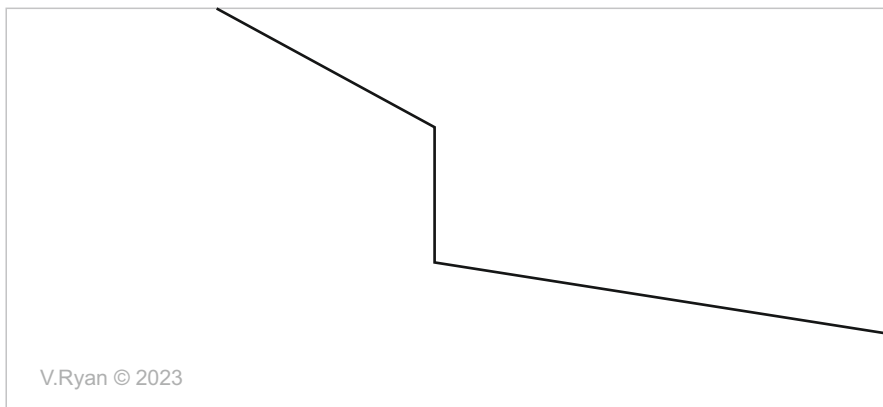
Complete the orthographic drawings of the 3D objects by adding the missing lines. Remember that hidden detail is represented by a dotted line. The arrow 'X' indicates the front view. Arrow 'Y' indicates the side view. Add six dimensions. (Use a ruler to measure from the completed views)

PLAN VIEW

3D DRAWING



**PLEASE ESTIMATE
ALL MEASUREMENTS**



FRONT VIEW

SIDE VIEW

THIRD ANGLE ORTHOGRAPHIC DRAWING

HELPFUL LINKS:

https://technologystudent.com/despro_f1sh/third8.html

HELPFUL LINK

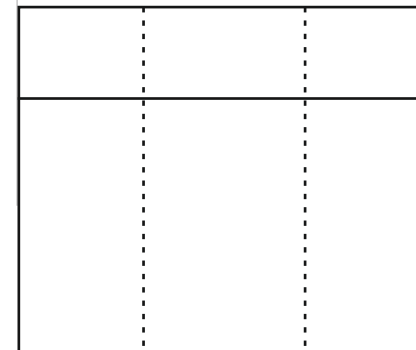
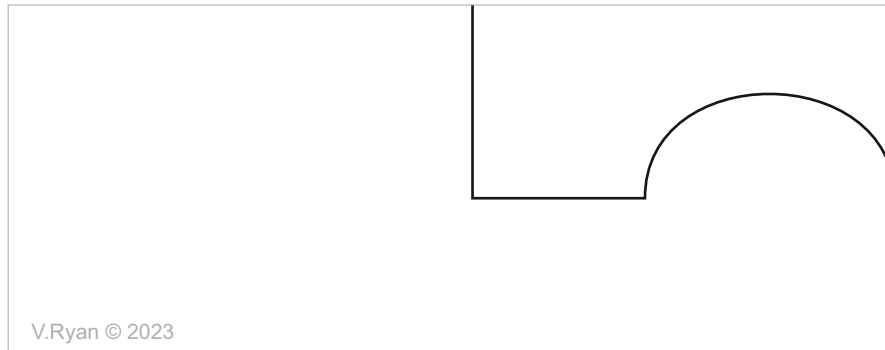
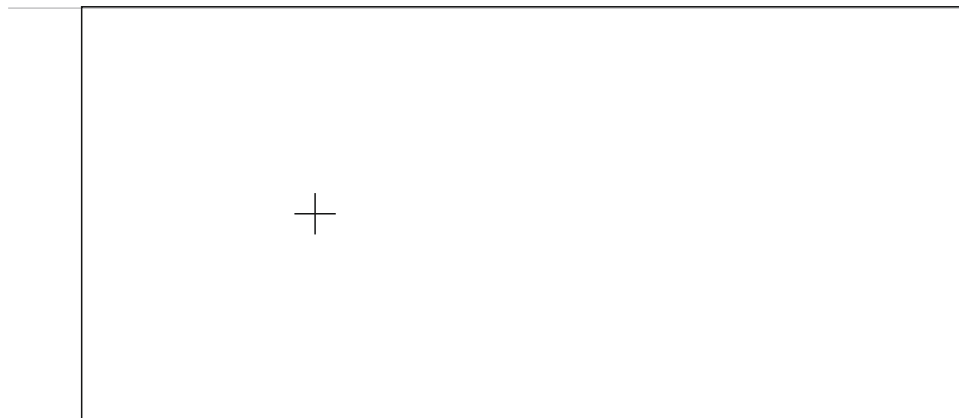
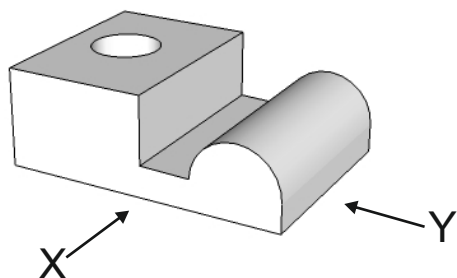


Complete the orthographic drawings of the 3D objects by adding the missing lines. Remember that hidden detail is represented by a dotted line. The arrow 'X' indicates the front view. Arrow 'Y' indicates the side view. Add six dimensions. (Use a ruler to measure from the completed views)

PLAN VIEW

REMEMBER - ADD SIX DIMENSIONS

3D DRAWING



PLEASE ESTIMATE ALL MEASUREMENTS

FRONT VIEW

SIDE VIEW

THIRD ANGLE ORTHOGRAPHIC DRAWING

HELPFUL LINKS:

https://technologystudent.com/despro_f1sh/third9.html

HELPFUL LINK

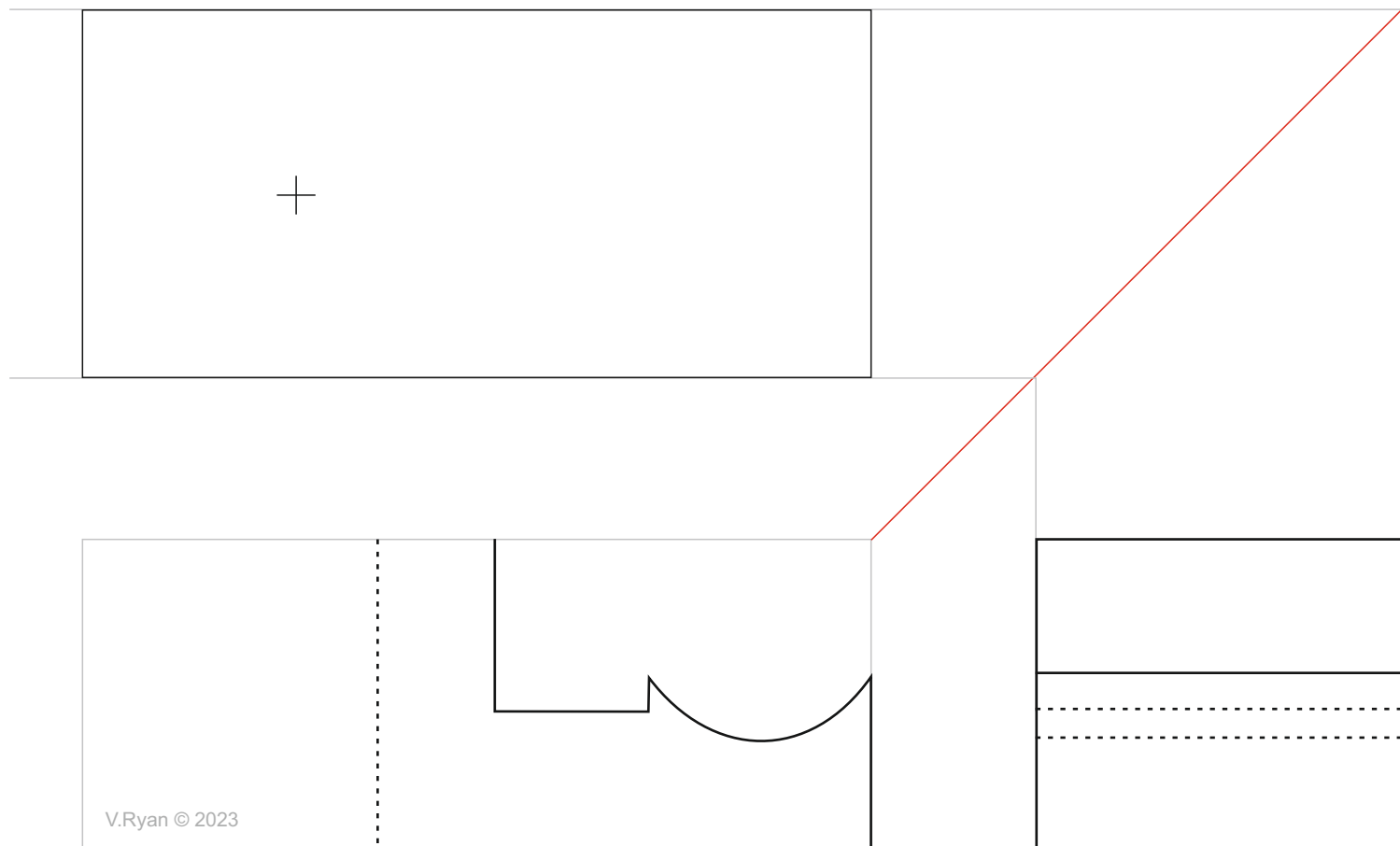
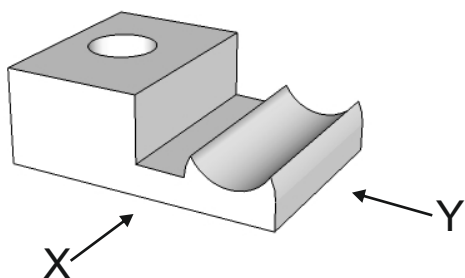


Complete the orthographic drawings of the 3D objects by adding the missing lines. Remember that hidden detail is represented by a dotted line. The arrow 'X' indicates the front view. Arrow 'Y' indicates the side view. Add six dimensions. (Use a ruler to measure from the completed views)

PLAN VIEW

REMEMBER - ADD SIX DIMENSIONS

3D DRAWING



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PLEASE ESTIMATE ALL MEASUREMENTS

FRONT VIEW

SIDE VIEW

THIRD ANGLE ORTHOGRAPHIC DRAWING

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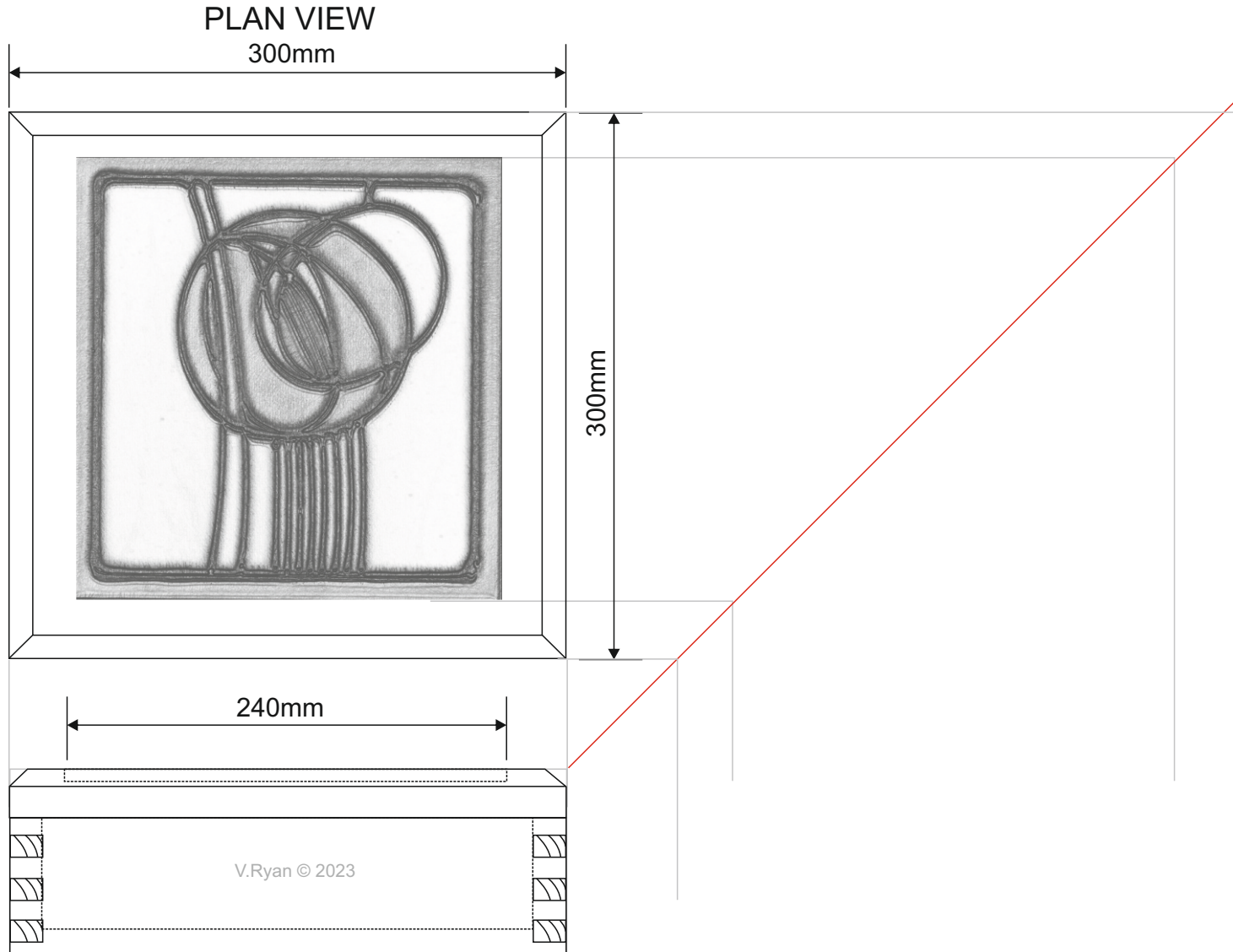
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HELPFUL LINK



HELPFUL LINKS: https://technologystudent.com/despro_f1sh/third10.html

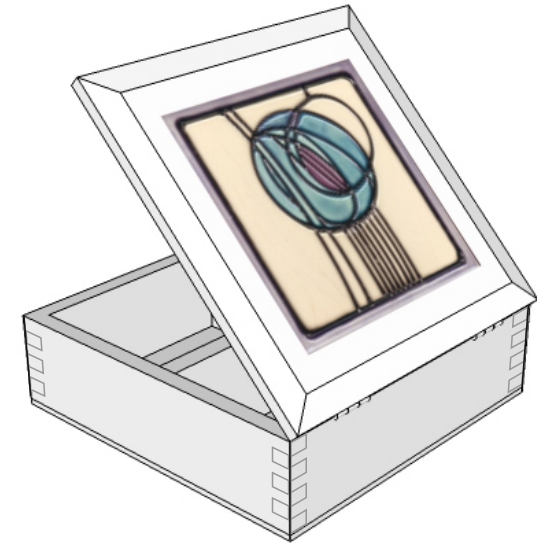
The design of this storage box (the front and plan view seen below), is based on the style of Charles Rennie Mackintosh. Draw the side view. Some of the guidelines have been drawn already to help you.



FRONT VIEW

SIDE VIEW

3D DRAWING



SCALE 1:2



THIRD ANGLE PROJECTION

PLEASE ESTIMATE ALL MEASUREMENTS

THIRD ANGLE ORTHOGRAPHIC DRAWING



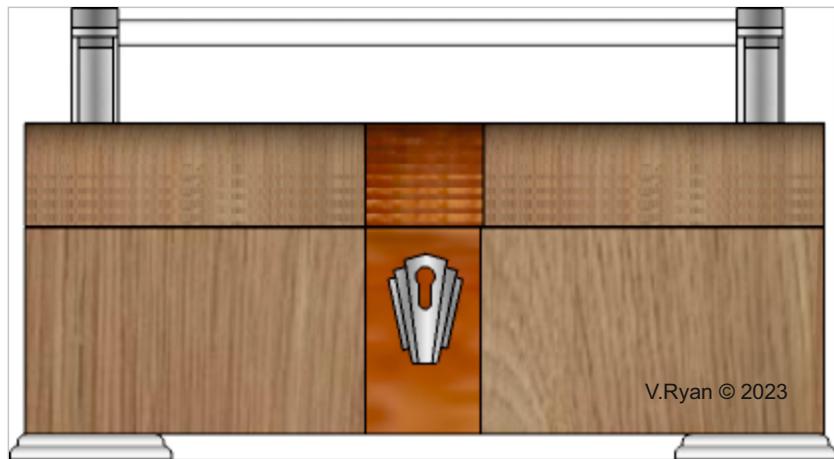
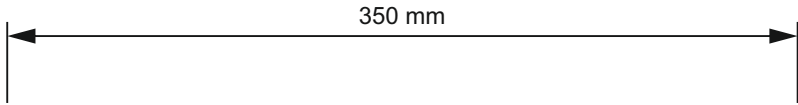
HELPFUL LINKS:

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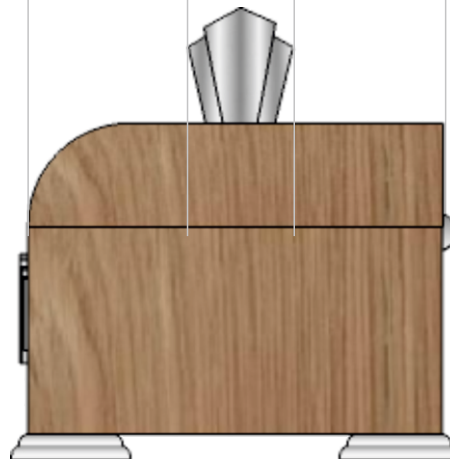
A 3D drawing of an Art Deco container is seen below.

Draw the plan view, in third angle orthographic projection.

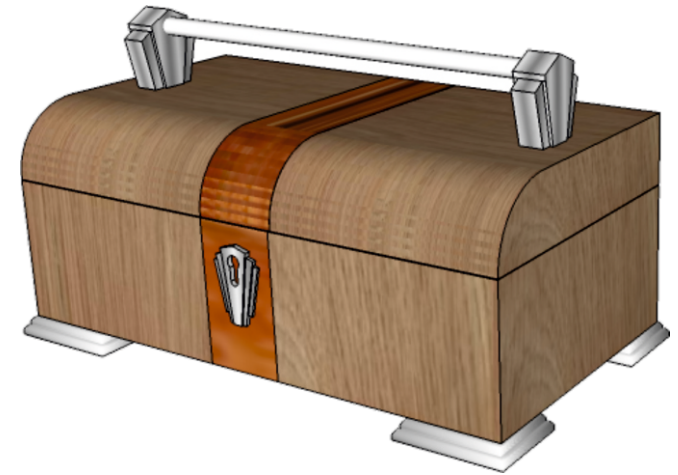
Add four more dimensions, estimate measurements. Some of the guidelines have been drawn already to help you. Add realistic shade / colour.



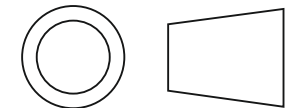
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3D DRAWING



SCALE 1:2



THIRD ANGLE PROJECTION

**PLEASE ESTIMATE
ALL MEASUREMENTS**

THIRD ANGLE ORTHOGRAPHIC DRAWING



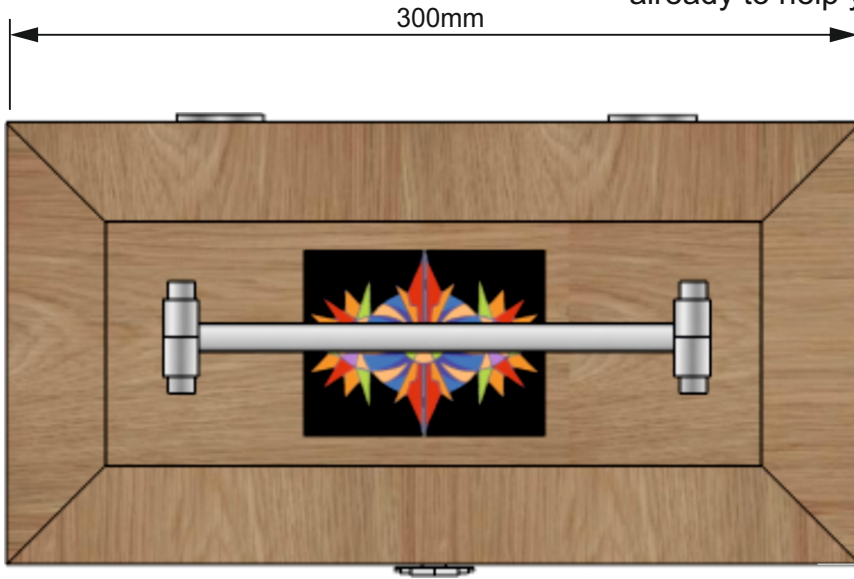
HELPFUL LINKS:

https://technologystudent.com/despro_f1sh/third10.html

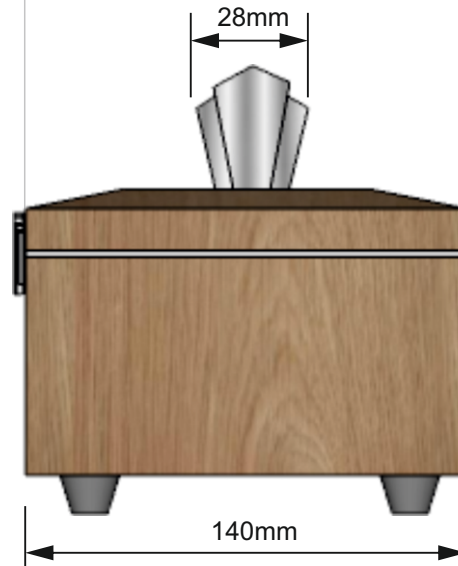
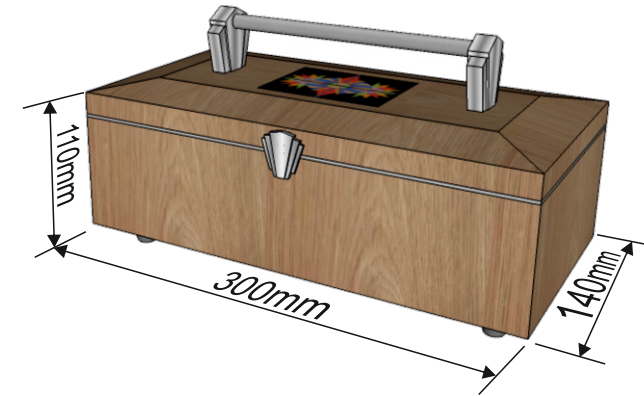
A 3D drawing of an Art Deco container is seen below.

Draw the front view, in third angle orthographic projection.

Add four more dimensions to the front view, estimate measurements. Some of the guidelines have been drawn already to help you. Add realistic shade / colour.



3D DRAWING



SCALE 1:2



THIRD ANGLE PROJECTION

**PLEASE ESTIMATE
ALL MEASUREMENTS**

THIRD ANGLE ORTHOGRAPHIC DRAWING

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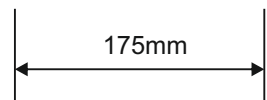
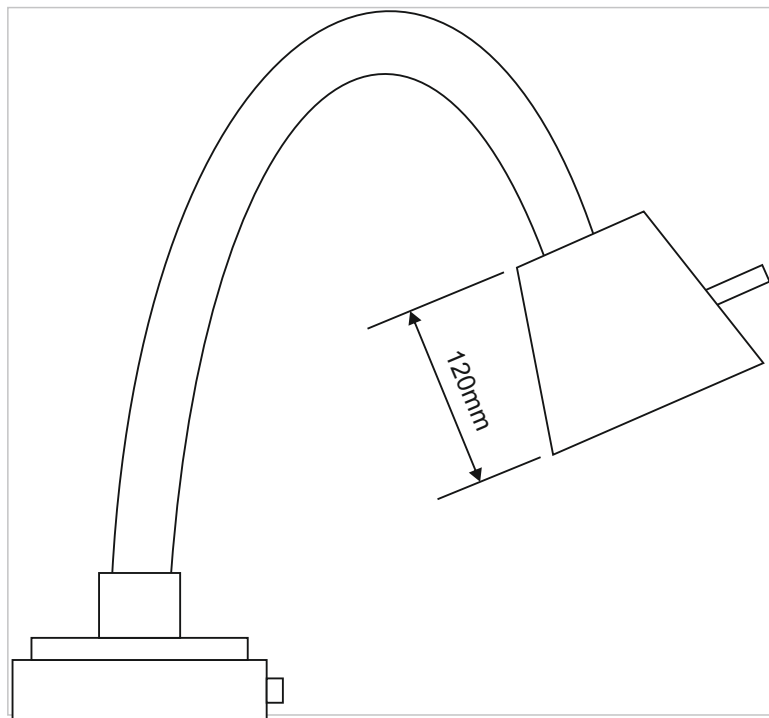
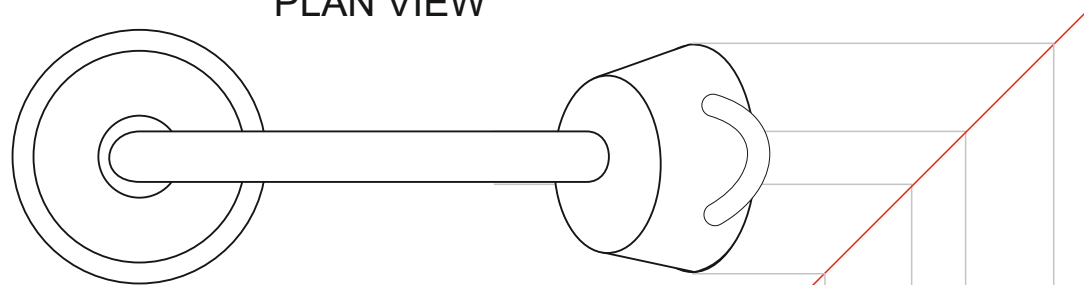
HELPFUL LINK



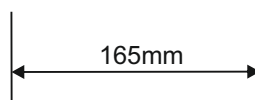
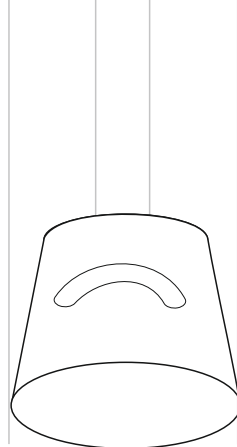
HELPFUL LINKS: https://technologystudent.com/despro_f1sh/third10.html

A 3D drawing of a task light is seen opposite.
Complete the front view, in third angle orthographic projection.
Add six dimensions, estimate measurements.

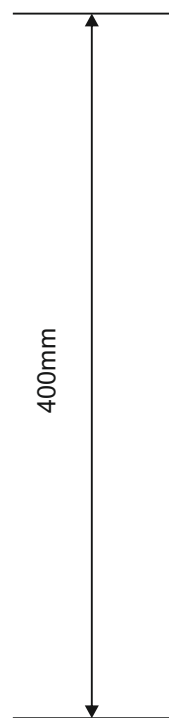
PLAN VIEW



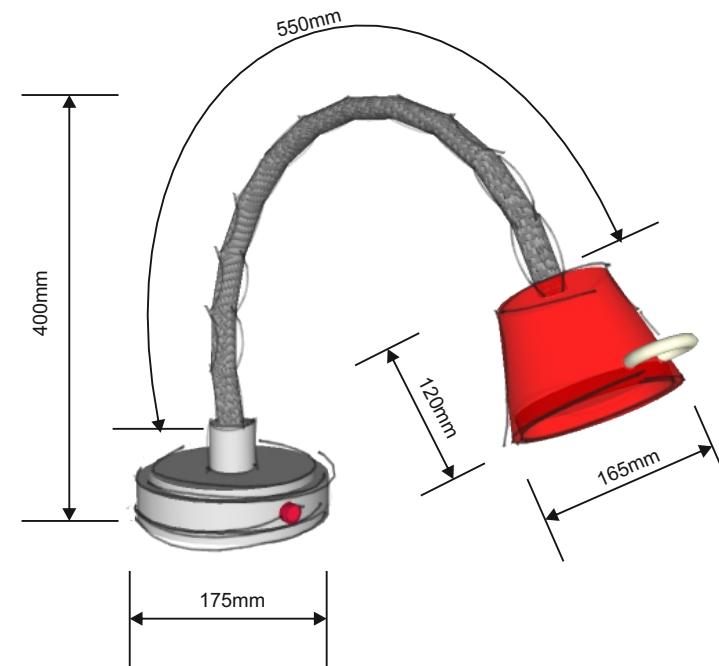
SIDE VIEW



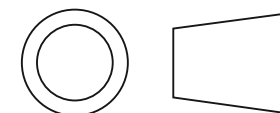
FRONT VIEW



3D DRAWING



SCALE 1:4



THIRD ANGLE PROJECTION

**PLEASE ESTIMATE
ALL MEASUREMENTS**

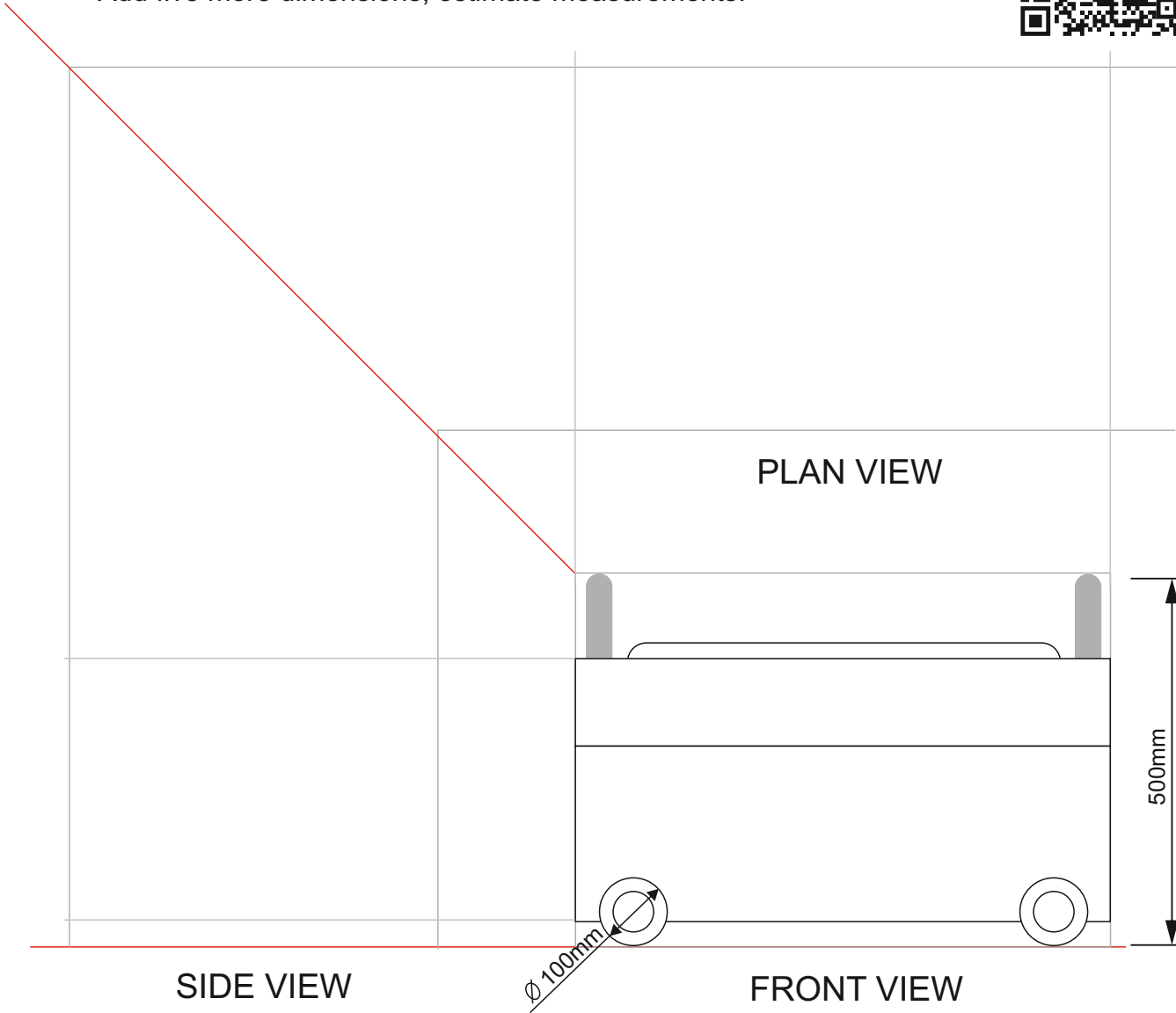
THIRD ANGLE ORTHOGRAPHIC DRAWING

HELPFUL LINKS: https://technologystudent.com/despro_f1sh/third10.html

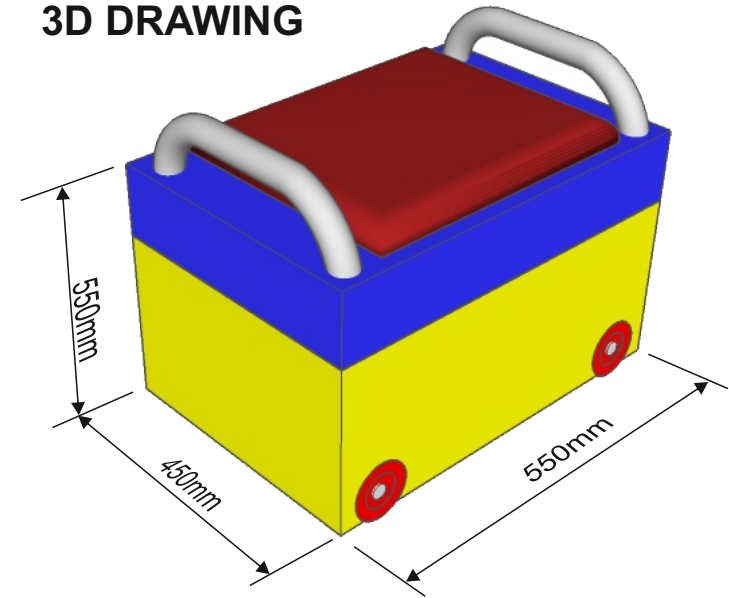
HELPFUL LINK



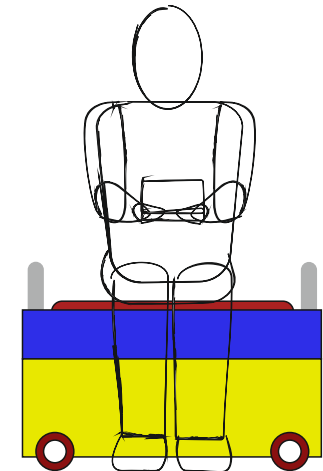
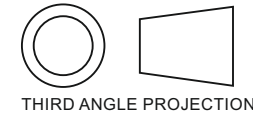
A 3D drawing of a storage unit is seen opposite.
Draw the side and plan views, in third angle orthographic projection.
Add five more dimensions, estimate measurements.



3D DRAWING



SCALE 1:4



PLEASE ESTIMATE ALL MEASUREMENTS

THIRD ANGLE ORTHOGRAPHIC DRAWING

HELPFUL LINKS: https://technologystudent.com/despro_flsh/third10.html

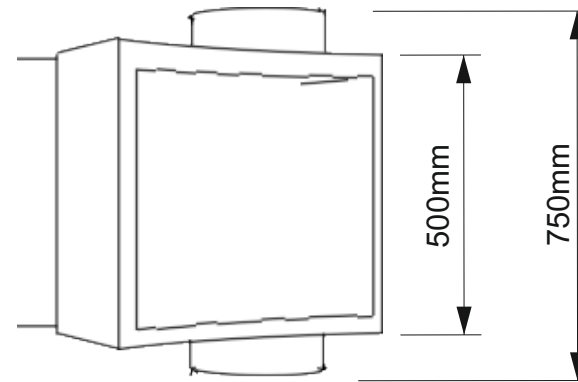
Complete the third angle orthographic drawing, of the final garden trolley, shown in 3D below.



HELPFUL LINK



GARDEN TROLLEY FOR THE ELDERLY



PLAN VIEW

