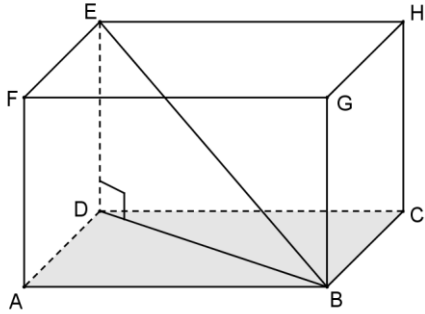


## Worksheet 1 – Projections

Name: \_\_\_\_\_ ( ) Class: \_\_\_\_\_ Date: \_\_\_\_\_

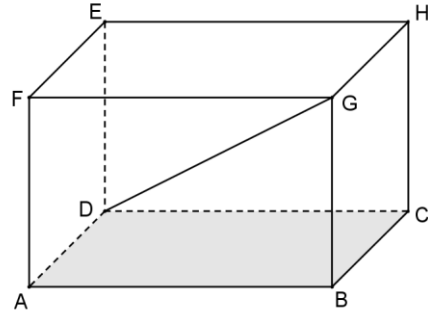
In each of the following figures, use the concept of a line perpendicular to a plane to name the projection of the given segment on the shaded plane. Also draw the projection and mark the right angle in the figure, as shown in the example.

Example



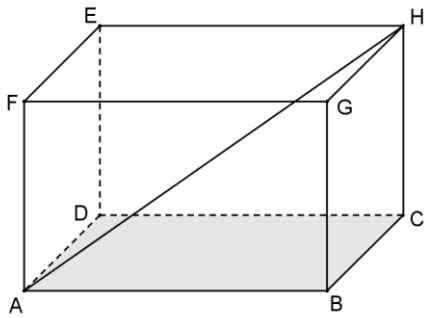
Since ED is perpendicular to plane ABCD, the projection of EB on plane ABCD is DB.

1



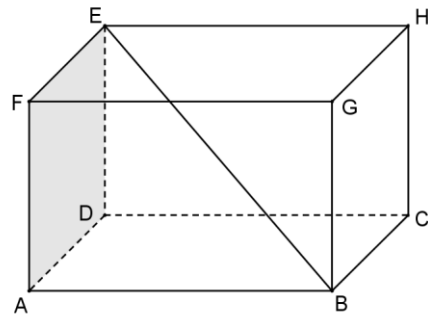
Since \_\_\_\_\_ is perpendicular to plane ABCD, the projection of GD on plane ABCD is \_\_\_\_\_.

2.



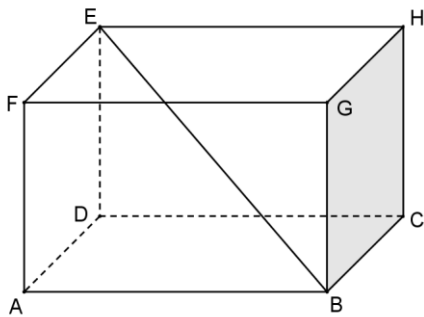
Since \_\_\_\_\_ is perpendicular to plane ABCD, the projection of HA on plane ABCD is \_\_\_\_\_.

3.



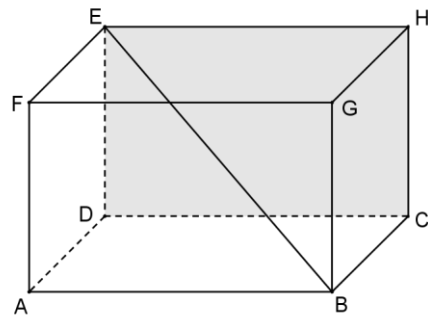
Since \_\_\_\_\_ is perpendicular to plane ADEF, the projection of EB on plane ADEF is \_\_\_\_\_.

4.



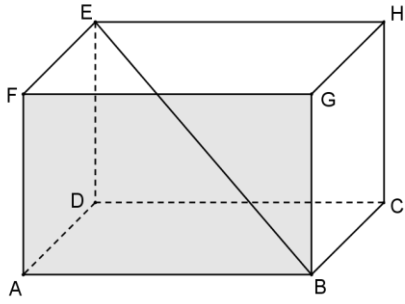
Since \_\_\_\_\_ is perpendicular to plane BCHG, the projection of EB on plane BCHG is \_\_\_\_\_.

5.



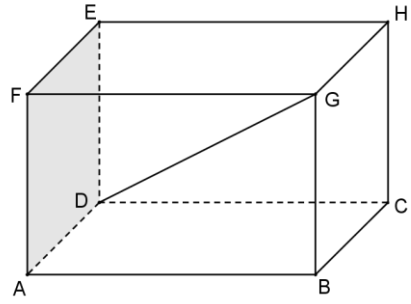
Since \_\_\_\_\_ is perpendicular to plane CDEH, the projection of EB on plane CDEH is \_\_\_\_\_.

6.



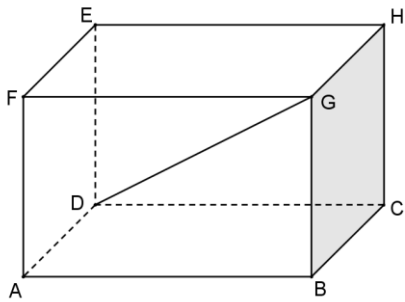
Since \_\_\_\_\_ is perpendicular to plane ABGF, the projection of EB on plane ABGF is \_\_\_\_\_ .

7.



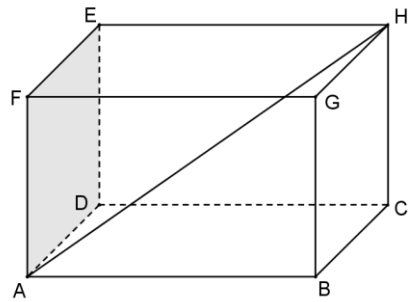
Since \_\_\_\_\_ is perpendicular to plane ADEF, the projection of GD on plane ADEF is \_\_\_\_\_ .

8.



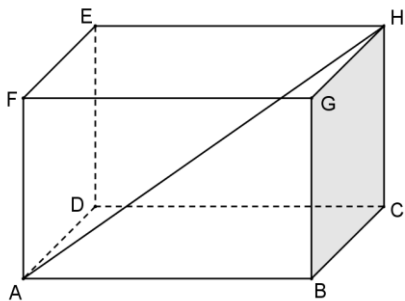
Since \_\_\_\_\_ is perpendicular to plane BCHG, the projection of GD on plane BCHG is \_\_\_\_\_ .

9.



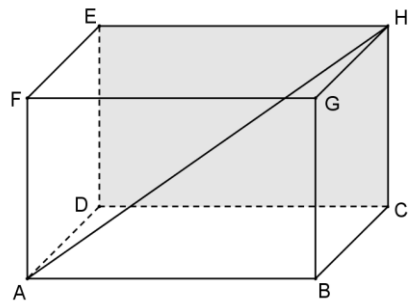
Since \_\_\_\_\_ is perpendicular to plane ADEF, the projection of HA on plane ADEF is \_\_\_\_\_ .

10.



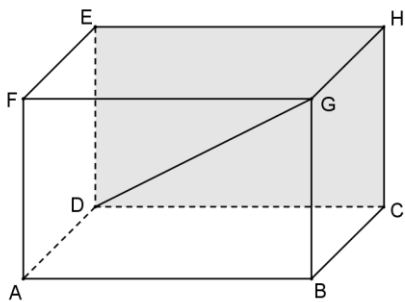
Since \_\_\_\_\_ is perpendicular to plane BCHG, the projection of HA on plane BCHG is \_\_\_\_\_ .

11.



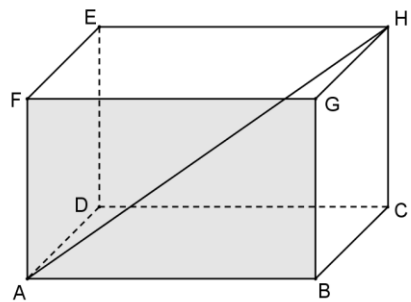
Since \_\_\_\_\_ is perpendicular to plane CDEH, the projection of HA on plane CDEH is \_\_\_\_\_ .

12.



Since \_\_\_\_\_ is perpendicular to plane CDEH, the projection of GD on plane CDEH is \_\_\_\_\_ .

13.



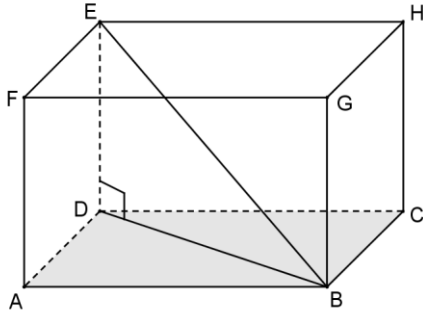
Since \_\_\_\_\_ is perpendicular to plane ABGF, the projection of HA on plane ABGF is \_\_\_\_\_ .

Worksheet 1 – Projections (Answer)

Name: \_\_\_\_\_ ( ) Class: \_\_\_\_\_ Date: \_\_\_\_\_

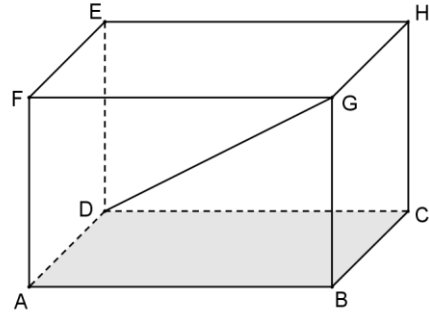
In each of the following figures, use the concept of a line perpendicular to a plane to name the projection of the given segment on the shaded plane. Also draw the projection and mark the right angle in the figure, as shown in the example.

Example



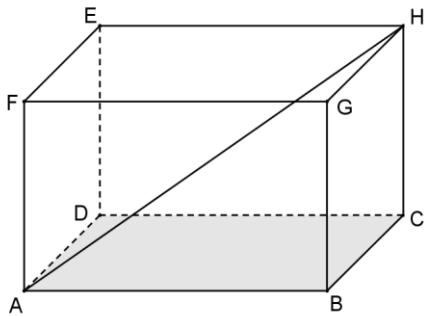
Since ED is perpendicular to plane ABCD, the projection of EB on plane ABCD is DB.

1



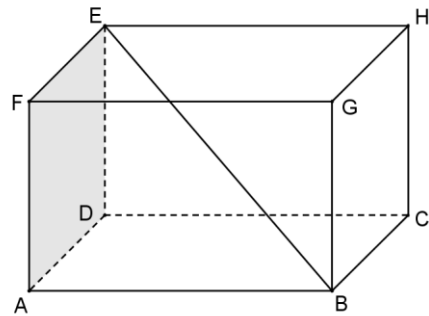
Since BG is perpendicular to plane ABCD, the projection of GD on plane ABCD is BD.

2.



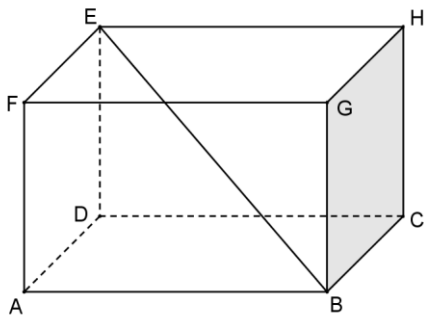
Since CH is perpendicular to plane ABCD, the projection of HA on plane ABCD is AC.

3.



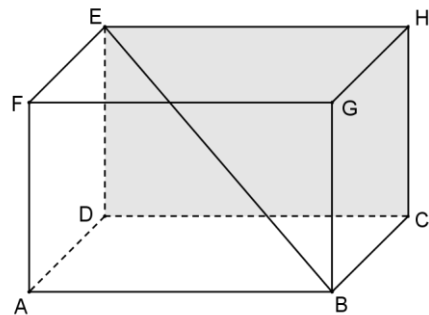
Since AB is perpendicular to plane ADEF, the projection of EB on plane ADEF is AE.

4.



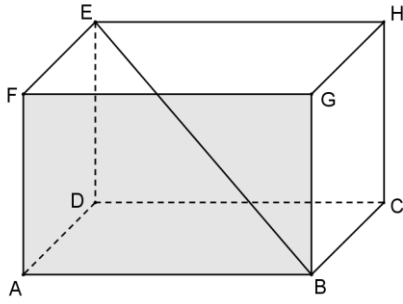
Since EH is perpendicular to plane BCHG, the projection of EB on plane BCHG is BH.

5.



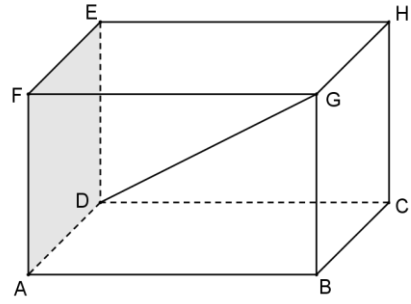
Since BC is perpendicular to plane CDEH, the projection of EB on plane CDEH is CE.

6.



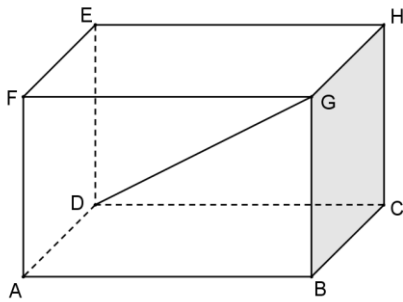
Since EF is perpendicular to plane ABGF, the projection of EB on plane ABGF is BF.

7.



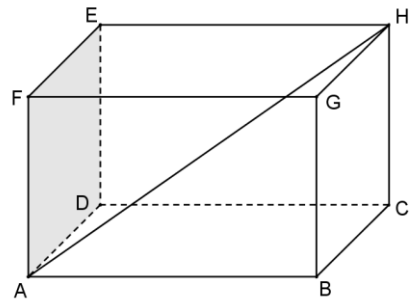
Since FG is perpendicular to plane ADEF, the projection of GD on plane ADEF is DF.

8.



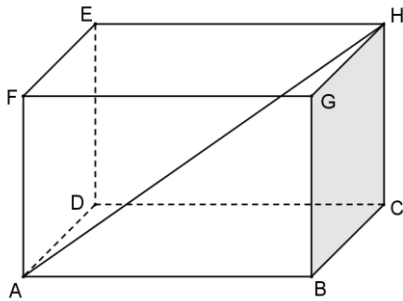
Since CD is perpendicular to plane BCHG, the projection of GD on plane BCHG is CG.

9.



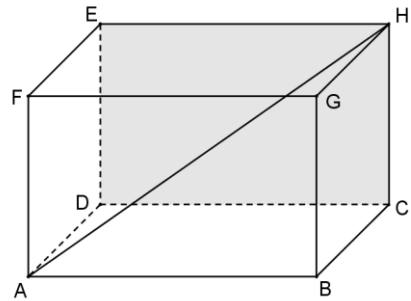
Since EH is perpendicular to plane ADEF, the projection of HA on plane ADEF is AE.

10.



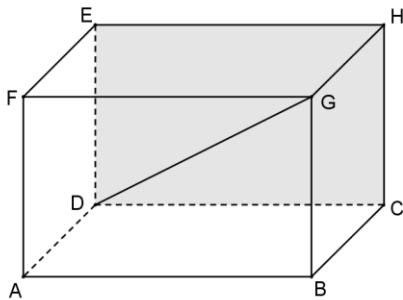
Since AB is perpendicular to plane BCHG, the projection of HA on plane BCHG is BH.

11.



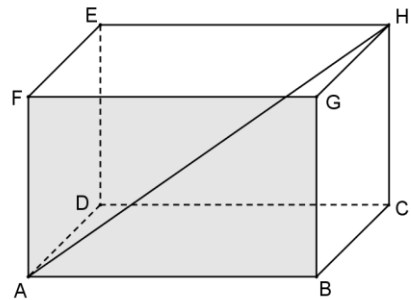
Since AD is perpendicular to plane CDEH, the projection of HA on plane CDEH is DH.

12.



Since GH is perpendicular to plane CDEH, the projection of GD on plane CDEH is DH.

13.



Since GH is perpendicular to plane ABGF, the projection of HA on plane ABGF is AG.