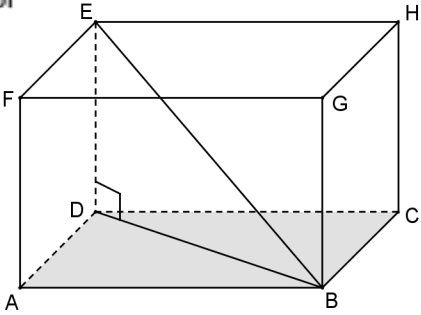
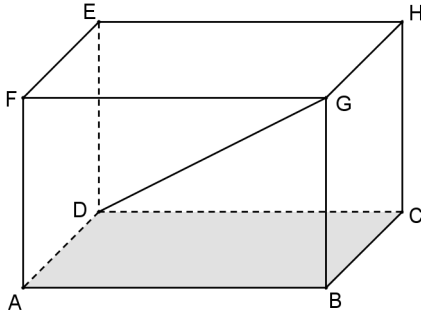
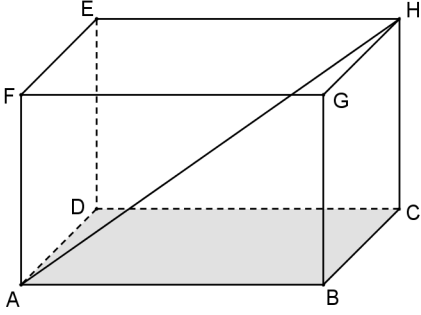
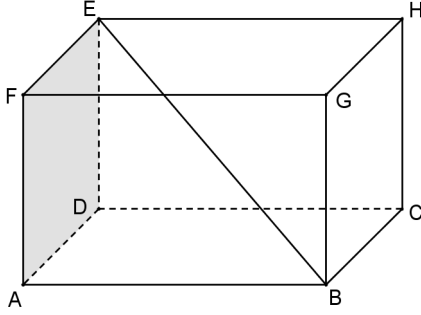
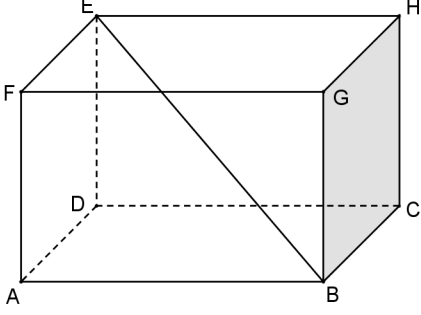
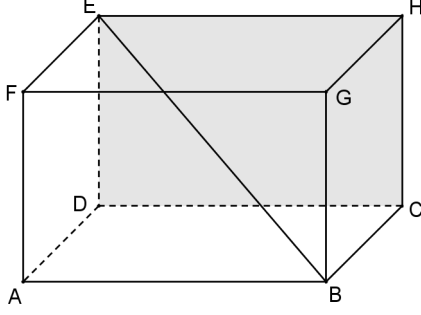
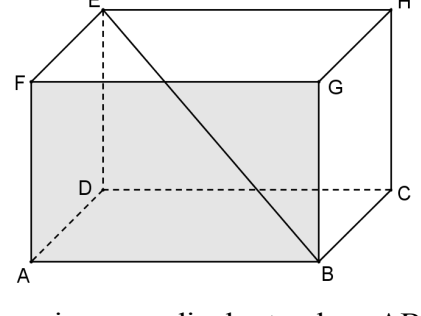
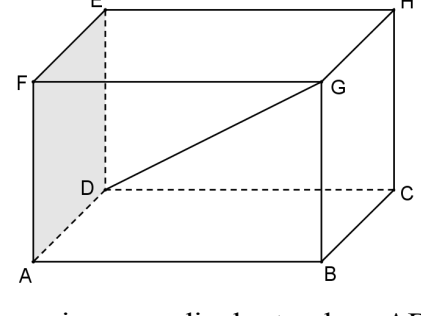


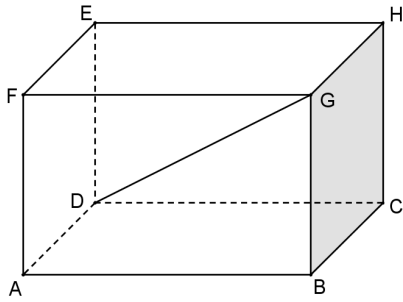
# Worksheet 1 – Projections

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.

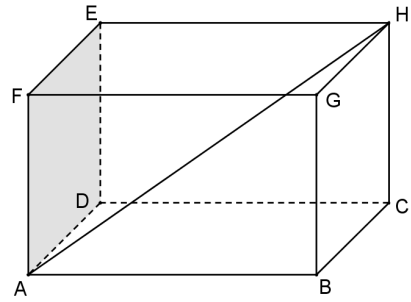
<p><b>Example</b></p>  <p>Since <u>ED</u> is perpendicular to plane ABCD, the projection of EB on plane ABCD is <u>DB</u>.</p>	<p>1.</p>  <p>Since ____ is perpendicular to plane ABCD, the projection of GD on plane ABCD is ____.</p>
<p>2.</p>  <p>Since ____ is perpendicular to plane ABCD, the projection of HA on plane ABCD is ____.</p>	<p>3.</p>  <p>Since ____ is perpendicular to plane ADEF, the projection of EB on plane ADEF is ____.</p>
<p>4.</p>  <p>Since ____ is perpendicular to plane BCHG, the projection of EB on plane BCHG is ____.</p>	<p>5.</p>  <p>Since ____ is perpendicular to plane CDEH, the projection of EB on plane CDEH is ____.</p>
<p>6.</p>  <p>Since ____ is perpendicular to plane ABGF, the projection of EB on plane ABGF is ____.</p>	<p>7.</p>  <p>Since ____ is perpendicular to plane ADEF, the projection of GD on plane ADEF is ____.</p>

8.



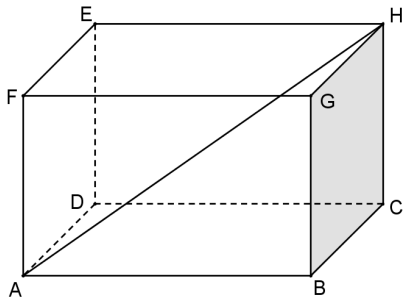
Since      is perpendicular to plane BCFG, the projection of GD on plane BCFG is     .

9.



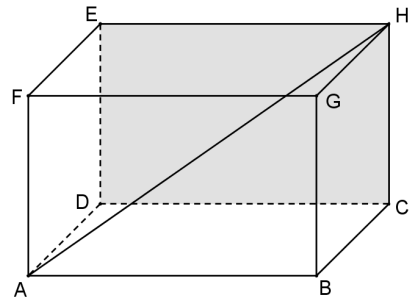
Since      is perpendicular to plane ADEF, the projection of HA on plane ADEF is     .

10.



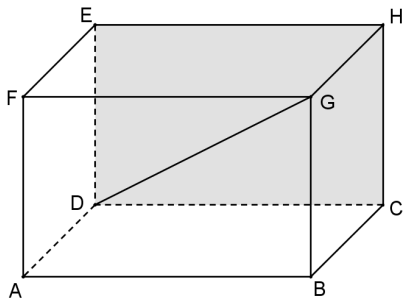
Since      is perpendicular to plane BCFG, the projection of HA on plane BCFG is     .

11.



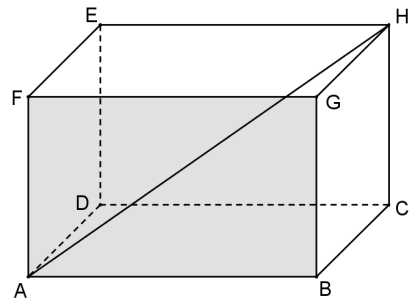
Since      is perpendicular to plane CDEH, the projection of HA on plane CDEH is     .

12.



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

13.



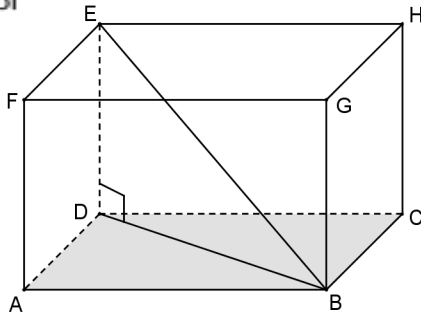
Since      is perpendicular to plane ABGF, the projection of HA on plane ABGF is     .

# Worksheet 1 – Projections (Answer)

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

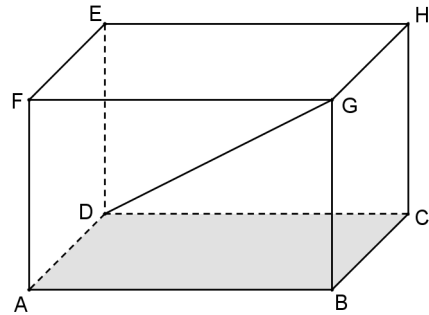
In each of the following figures, use the concept of a line perpendicular to a plane to name the projection of the given segment on the shaded plane. Also draw the projection and mark the right angle in the figure, as shown in the example.

Example



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

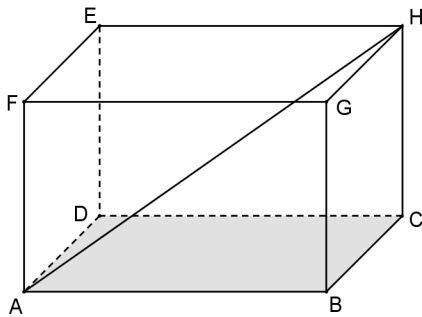
1



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

BD  
G

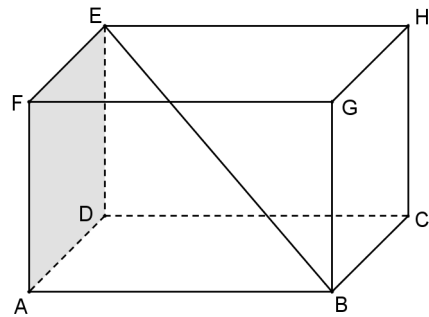
2.



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

AC

3.

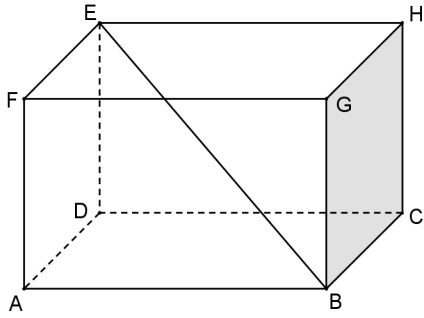


Since AB is perpendicular to plane ADEF, the projection of EB on plane ADEF is AE.

AE

CE

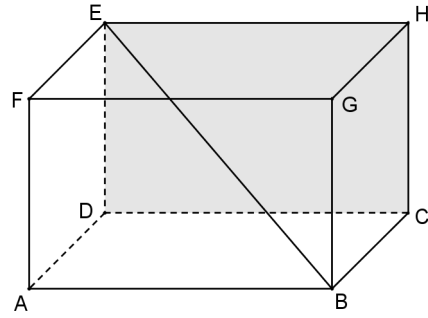
4.



Since ~~EH~~ is perpendicular to plane BCFG, the projection of EB on plane BCFG is \_\_\_\_.

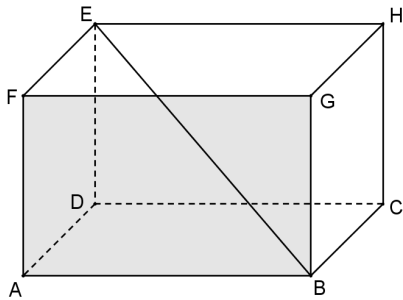
BH

5.



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

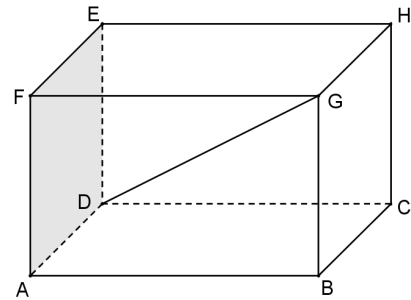
6.



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

BF

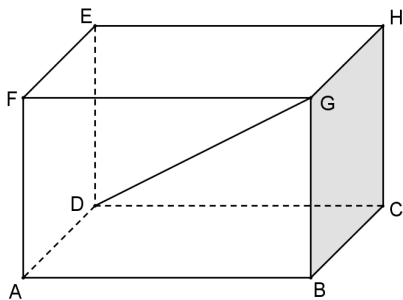
7.



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

DF

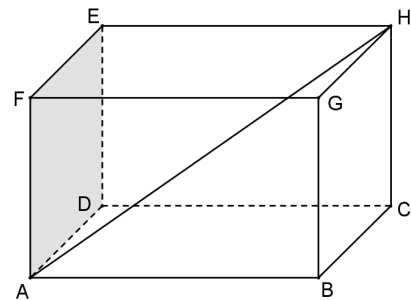
8.



Since ~~CD~~ is perpendicular to plane BCFG, the projection of GD on plane BCFG is \_\_\_\_.

CG

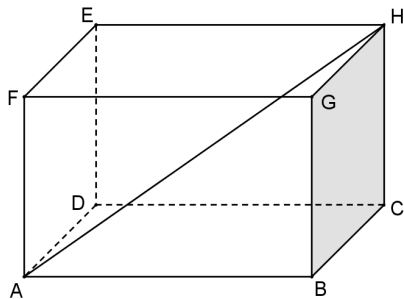
9.



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

AE

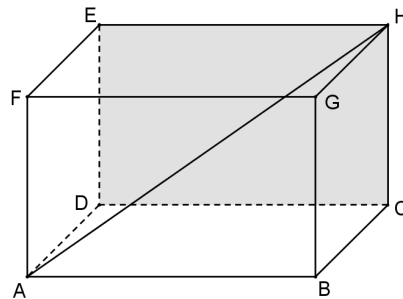
10.



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

BH

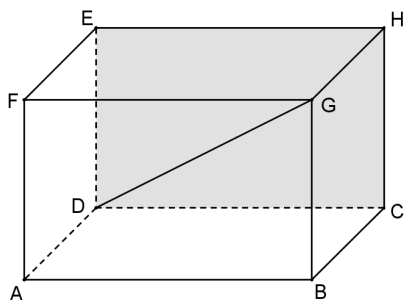
11.



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

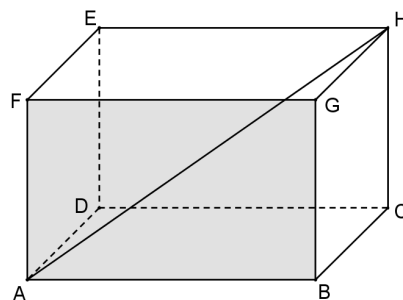
DH

12.



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

13.



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

AG