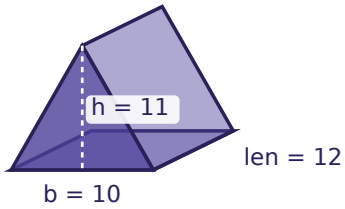
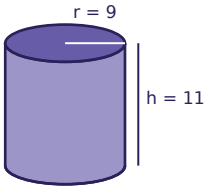
Task card 1 Cross Sections of 3D Figures

A plane slices the triangular prism parallel to its triangular faces. What shape is the cross section? (circle, triangle, square, or rectangle)



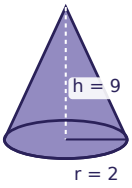
Task card 2 Cross Sections of 3D Figures

A plane slices the cylinder parallel to its base. What shape is the cross section? (circle, triangle, square, or rectangle)



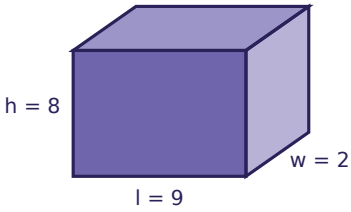
Task card 3 Cross Sections of 3D Figures

A plane slices the cone parallel to its base. What shape is the cross section? (circle, triangle, square, or rectangle)



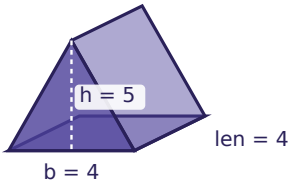
Task card 4 Cross Sections of 3D Figures

A plane slices the rectangular prism parallel to the front face. What is the area of the cross section in square units?



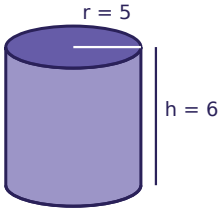
Task card 5 Cross Sections of 3D Figures

A plane slices the triangular prism parallel to its triangular faces. What is the area of the cross section in square units?



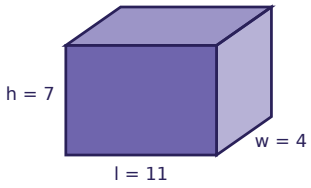
Task card 6 Cross Sections of 3D Figures

A plane slices the cylinder perpendicular to its base, through the center of the base. What is the area of the cross section in square units?



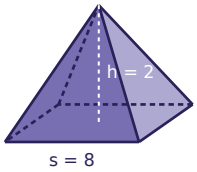
Task card 7 Cross Sections of 3D Figures

A plane slices the rectangular prism parallel to its base. What is the area of the cross section in square units?



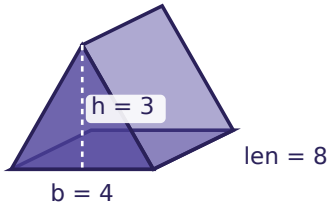
Task card 8 Cross Sections of 3D Figures

A plane slices the square pyramid perpendicular to its base, through its tip, parallel to one side of the base. What is the area of the cross section in square units?



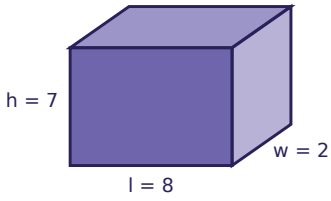
Task card 9 Cross Sections of 3D Figures

A plane slices the triangular prism parallel to its triangular faces. What shape is the cross section? (circle, triangle, square, or rectangle)



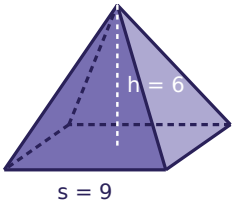
Task card 10 Cross Sections of 3D Figures

A plane slices the rectangular prism perpendicular to its base, parallel to the front face. What shape is the cross section? (circle, triangle, square, or rectangle)



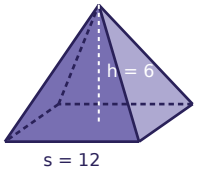
Task card 11 Cross Sections of 3D Figures

A plane slices the square pyramid perpendicular to its base, through its tip. What shape is the cross section? (circle, triangle, square, or rectangle)



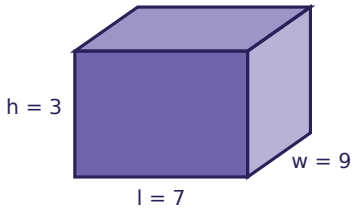
Task card 12 Cross Sections of 3D Figures

A plane slices the square pyramid perpendicular to its base, through its tip, parallel to one side of the base. What is the area of the cross section in square units?



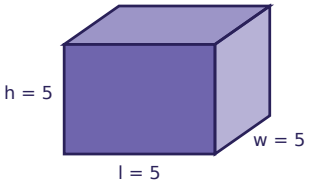
Task card 13 Cross Sections of 3D Figures

A plane slices the rectangular prism parallel to the right side face. What is the area of the cross section in square units?



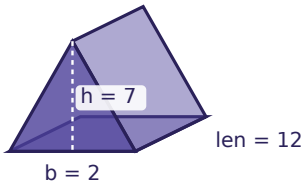
Task card 14 Cross Sections of 3D Figures

A plane slices the cube parallel to its top face. What is the area of the cross section in square units?



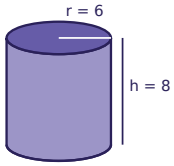
Task card 15 Cross Sections of 3D Figures

A plane slices the triangular prism parallel to its triangular faces. What is the area of the cross section in square units?



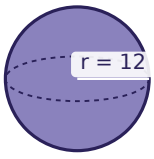
Task card 16 Cross Sections of 3D Figures

A plane slices the cylinder parallel to its base. What is the area of the cross section in square units?



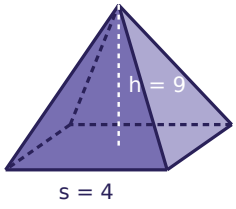
Task card 17 Cross Sections of 3D Figures

A plane slices the sphere through its center. What shape is the cross section? (circle, triangle, square, or rectangle)



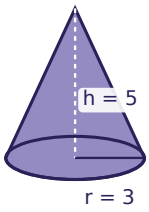
Task card 18 Cross Sections of 3D Figures

A plane slices the square pyramid perpendicular to its base, through its tip. What shape is the cross section? (circle, triangle, square, or rectangle)



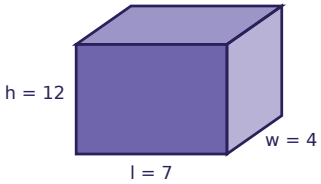
Task card 19 Cross Sections of 3D Figures

A plane slices the cone perpendicular to its base, through its tip. What shape is the cross section? (circle, triangle, square, or rectangle)



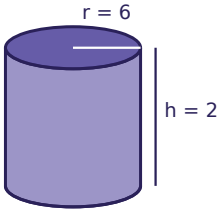
Task card 20 Cross Sections of 3D Figures

A plane slices the rectangular prism parallel to its base. What is the area of the cross section in square units?



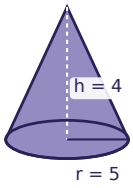
Task card 21 Cross Sections of 3D Figures

A plane slices the cylinder perpendicular to its base, through the center of the base. What is the area of the cross section in square units?



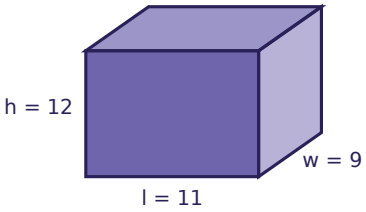
Task card 22 Cross Sections of 3D Figures

A plane slices the cone perpendicular to its base, through its tip. What is the area of the cross section in square units?



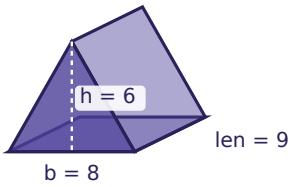
Task card 23 Cross Sections of 3D Figures

A plane slices the rectangular prism parallel to the right side face. What is the area of the cross section in square units?



Task card 24 Cross Sections of 3D Figures

A plane slices the triangular prism parallel to its triangular faces. What is the area of the cross section in square units?



Cross Sections of 3D Figures Task Cards

Recording sheet · Grade 7 · Name the shape of each cross section, or find its area. Use π ≈ 3.14 and round to the nearest tenth when needed.

Name: _____ Date: _____

Scan to check your answers

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Cross Sections of 3D Figures Task Cards: Answer Key

Grade 7 · Hard

The answers online

1. Triangle	**2.** Circle	**3.** Circle
4. 72	**5.** 10	**6.** 60
7. 44	**8.** 8	**9.** Triangle
10. Rectangle	**11.** Triangle	**12.** 36
13. 27	**14.** 25	**15.** 7
16. 113	**17.** Circle	**18.** Triangle
19. Triangle	**20.** 28	**21.** 24
22. 20	**23.** 108	**24.** 24