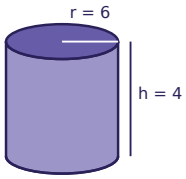
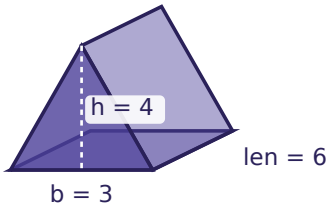
Task card 1 Cross Sections of 3D Figures

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



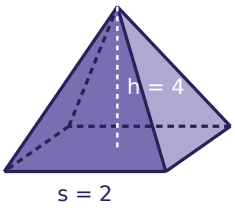
Task card 2 Cross Sections of 3D Figures

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



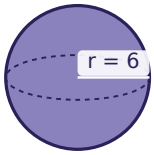
Task card 3 Cross Sections of 3D Figures

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



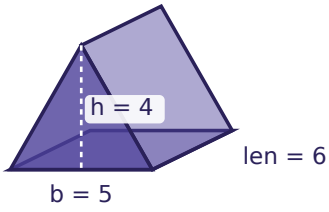
Task card 4 Cross Sections of 3D Figures

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



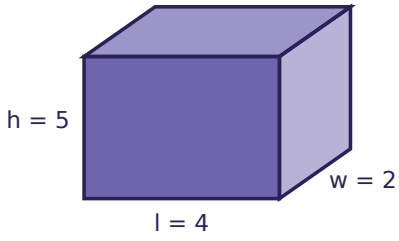
Task card 5 Cross Sections of 3D Figures

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



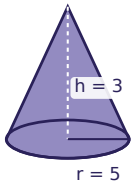
Task card 6 Cross Sections of 3D Figures

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



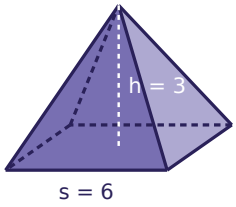
Task card 7 Cross Sections of 3D Figures

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



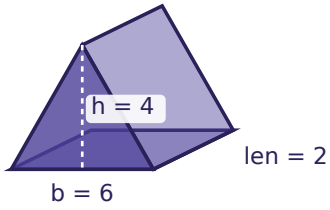
Task card 8 Cross Sections of 3D Figures

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



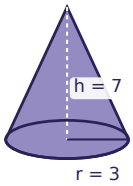
Task card 9 Cross Sections of 3D Figures

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



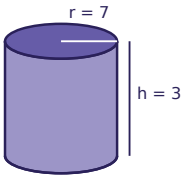
Task card 10 Cross Sections of 3D Figures

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



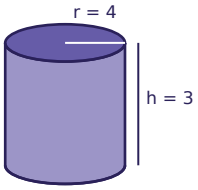
Task card 11 Cross Sections of 3D Figures

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



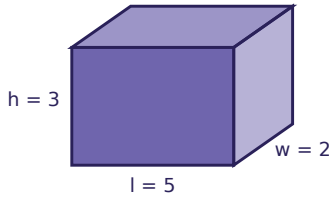
Task card 12 Cross Sections of 3D Figures

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



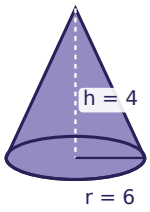
Task card 13 Cross Sections of 3D Figures

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)



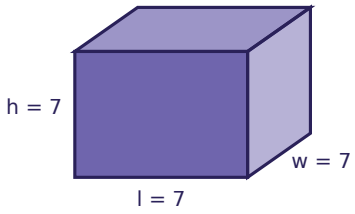
Task card 14 Cross Sections of 3D Figures

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



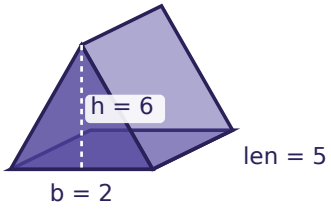
Task card 15 Cross Sections of 3D Figures

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



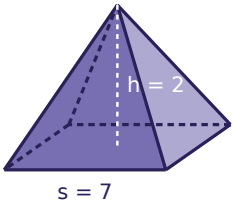
Task card 16 Cross Sections of 3D Figures

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



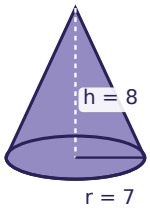
Task card 17 Cross Sections of 3D Figures

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



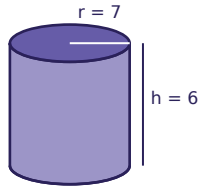
Task card 18 Cross Sections of 3D Figures

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



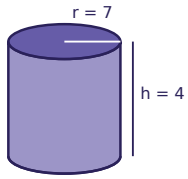
Task card 19 Cross Sections of 3D Figures

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



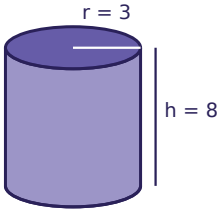
Task card 20 Cross Sections of 3D Figures

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



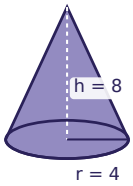
Task card 21 Cross Sections of 3D Figures

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?



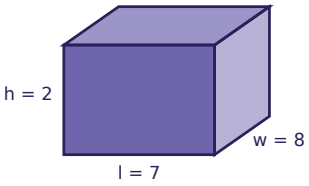
Task card 22 Cross Sections of 3D Figures

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



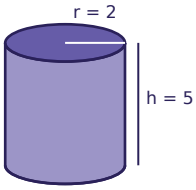
Task card 23 Cross Sections of 3D Figures

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



Task card 24 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)



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.

Scan to check your answers

Name: _____ Date: _____

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 · Easy

The answers online

1. Rectangle	**2.** Rectangle	**3.** Triangle
4. Circle	**5.** Triangle	**6.** Rectangle
7. Circle	**8.** Square	**9.** Rectangle
10. Circle	**11.** Rectangle	**12.** Circle
13. Rectangle	**14.** Triangle	**15.** Square
16. Triangle	**17.** Square	**18.** Triangle
19. Circle	**20.** Rectangle	**21.** 48
22. 32	**23.** 56	**24.** Circle