Unit: 3rd – Perimeter, Area & Geometry
Lesson: 3.6.A - 3.6.B - Classifying 2 and 3D figures
Problem Set: 1

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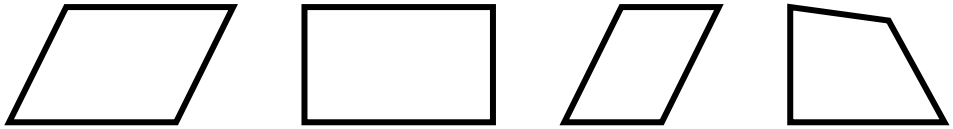
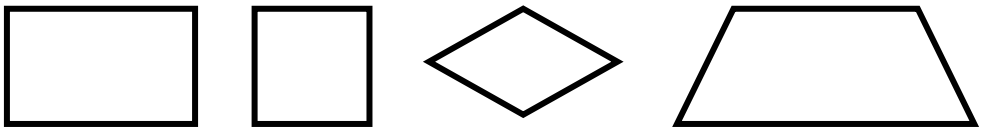
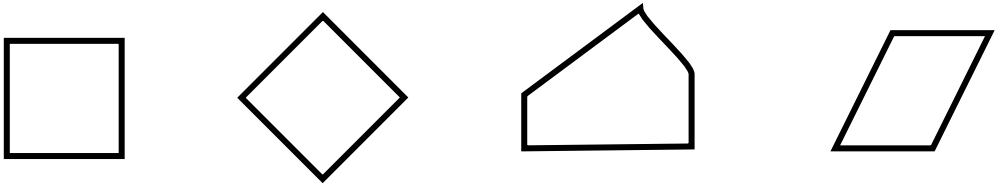
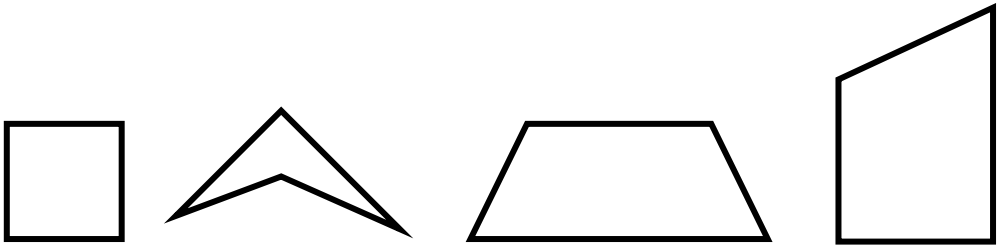
1. B	**2.** A	**3.** D	**4.** D	**5.** C	**6.** A
7. C	**8.** B	**9.** C	**10.** B	**11.** D	**12.** B
13. C	**14.** C	**15.** B	**16.** C	**17.** B	**18.** D
19. A	**20.** D	**21.** D	**22.** A	**23.** A	**24.** C
25. D	**26.** C	**27.** B	**28.** B	**29.** D	**30.** B

1. In which set do all the figures appear to be either a rhombus, a parallelogram, trapezoid, rectangle or square.

A. 

B. 

C. 

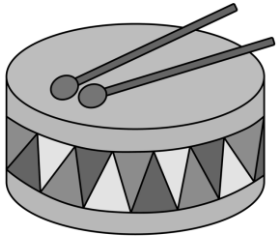
D. 

2. The objects can be classified into 2 groups based on their shape.

Can

Toolbox

Brick



Drum

Which table best represents the classifications of these objects?

A.

Group	Object
Prism	Brick Toolbox
Cylinder	Can Drum

B.

Group	Object
Cube	Brick Toolbox
Cylinder	Can Drum

C.

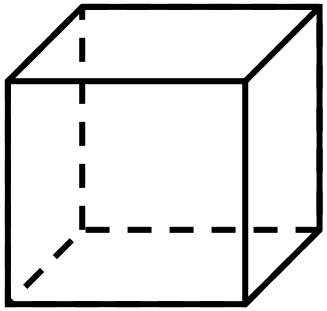
Group	Object
Prism	Brick Toolbox
Sphere	Can Drum

D.

Group	Object
Cylinder	Brick Toolbox
Prism	Can Drum

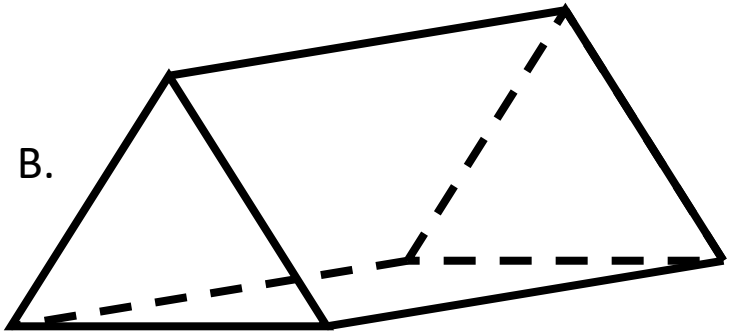
3. Which figure CANNOT be classified as a prism.

A.

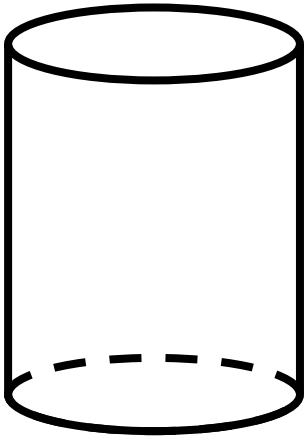


C.

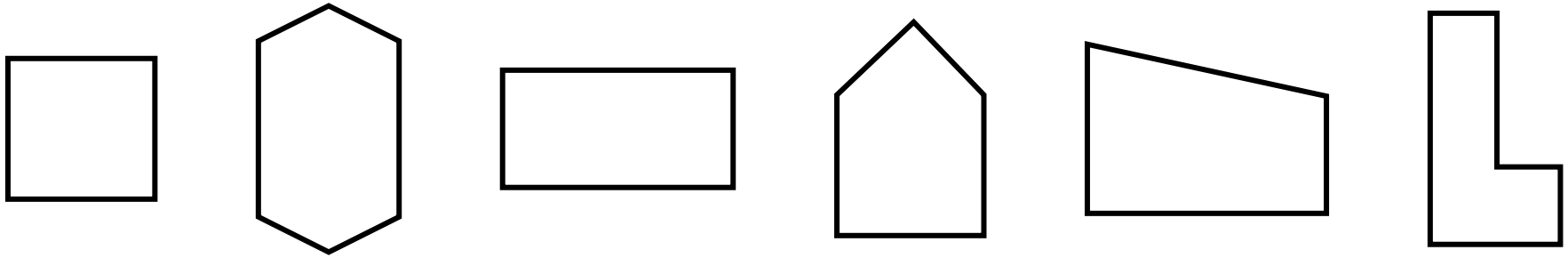
B.



D.



4. The figures shown can be sorted into groups.



Which of these shows a correct way to group these figures?

A. 3 rectangles and 3 hexagons

B. 2 hexagons and 4 quadrilaterals

C. 2 hexagons, 2 pentagons, and 2 rectangles

D. 1 pentagon, 2 hexagons, and 3 quadrilaterals

5. Dominique put figures into groups based on certain attributes. Sometimes she put figures into more than one group.

Dominique's Figures

Group	Attribute
1	Can have sides of different lengths
2	Has exactly 4 sides
3	Is a polygon

Which statement is true?

A. A square could be put into all the groups

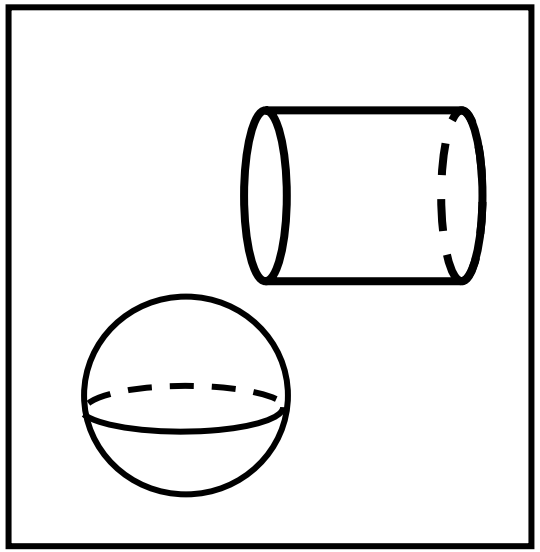
B. A triangle could be put into all the groups

C. A rectangle could be put into all groups

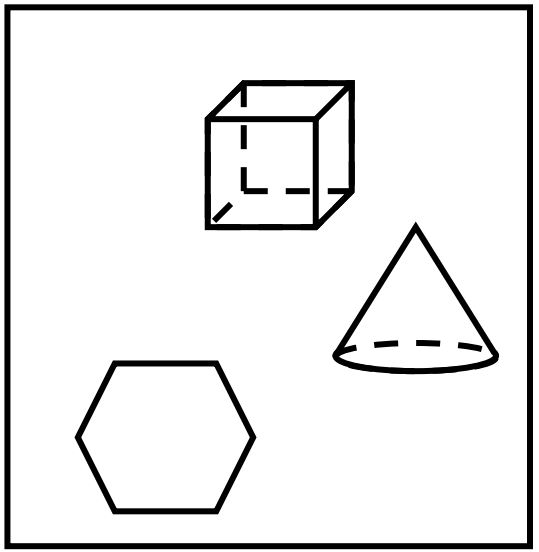
D. A pentagon could be put into all groups

6. Sofia separated some figures into two sets. The figures in set A have a common characteristic. The figures in Set B do not have the characteristic.

Set A



Set B



Which of these is the best description of the common characteristic of the figures in Set A?

A. They have no vertices.

B. They have at least one circular base.

C. They have at least one edge.

D. They have faces that are polygons.

Unit: 3rd – Perimeter, Area & Geometry
Lesson: 3.6.A - 3.6.B - Classifying 2 and 3D figures
Problem Set: 2

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1. B	**2.** A	**3.** D	**4.** D	**5.** C	**6.** A
7. C	**8.** B	**9.** C	**10.** B	**11.** D	**12.** B
13. C	**14.** C	**15.** B	**16.** C	**17.** B	**18.** D
19. A	**20.** D	**21.** D	**22.** A	**23.** A	**24.** C
25. D	**26.** C	**27.** B	**28.** B	**29.** D	**30.** B

7. JaMarion put figures into groups based on certain attributes. Sometimes he put figures into more than one group.

JaMarion's Figures

Group	Attribute
1	Must have all sides congruent
2	Has exactly 4 sides
3	Is a polygon

Which statement is true?

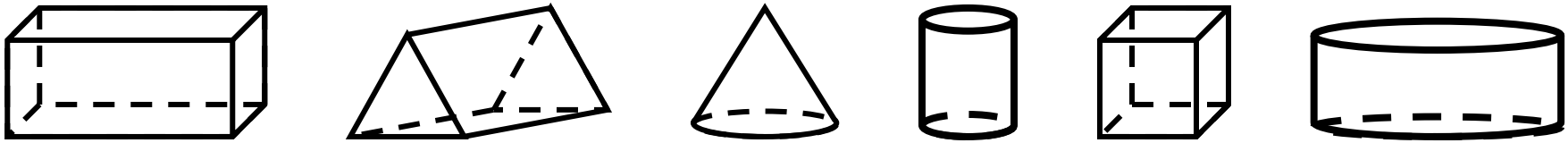
A. A square could be put into group 1 only

B. A triangle could be put into all the groups

C. A rectangle could be put into groups 2 and 3 only

D. A pentagon could be put into group 1 only

8. The figures shown can be sorted into groups.



Which list shows a correct way to group the figures?

A. 2 prisms, 1 cone, 2 cylinders, and 1 pyramid

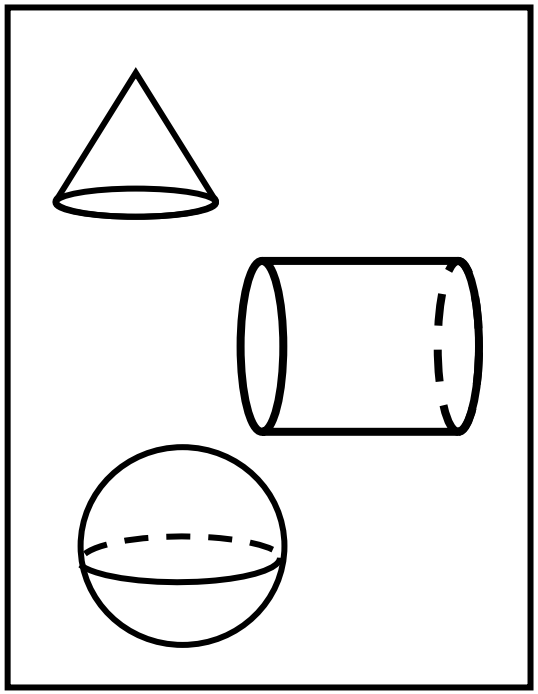
B. 3 prisms, 1 cone, and 2 cylinders

C. 2 prisms, 2 cylinders, 1 sphere, and 1 cube

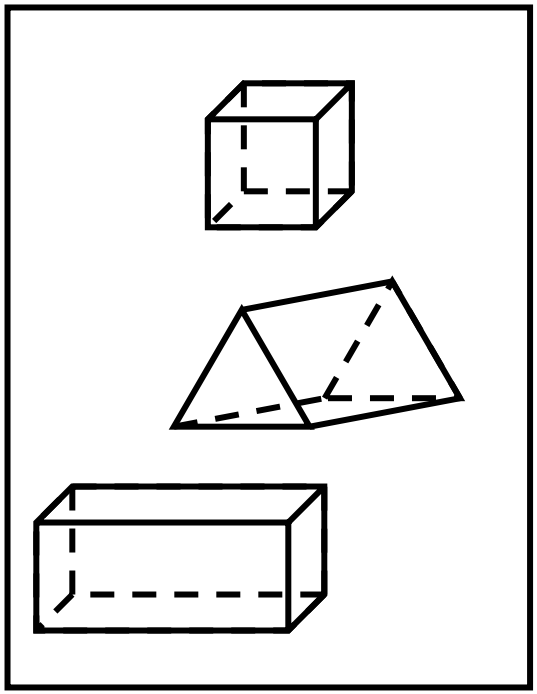
D. 3 prisms, 1 cylinder, and 2 cones

9. Zayne sorted some figures into two groups.

Group X



Group Y



Which statement about the figures Zayne sorted is true?

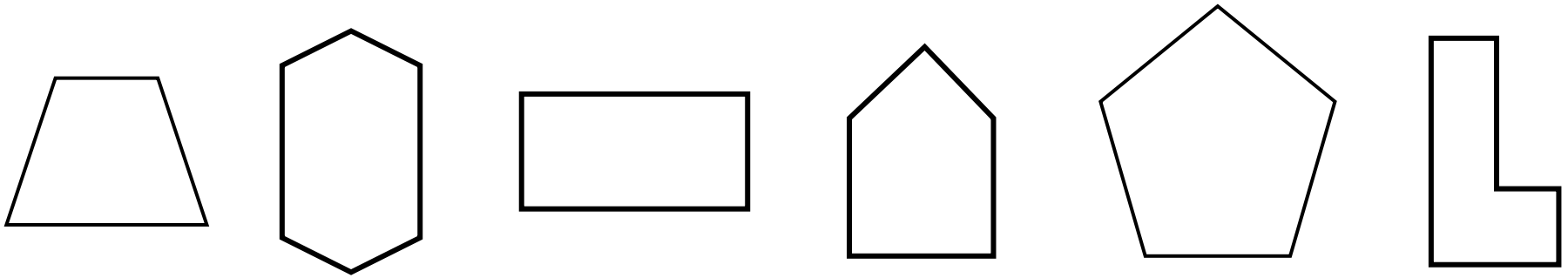
A. All the figures in Group X are cylinders.

B. All the figures in Group X are cones.

C. All the figures in Group Y are prisms.

D. All the figures in Group Y are rectangular prisms.

10. The figures shown can be sorted into groups.



Which of these shows a correct way to group these figures?

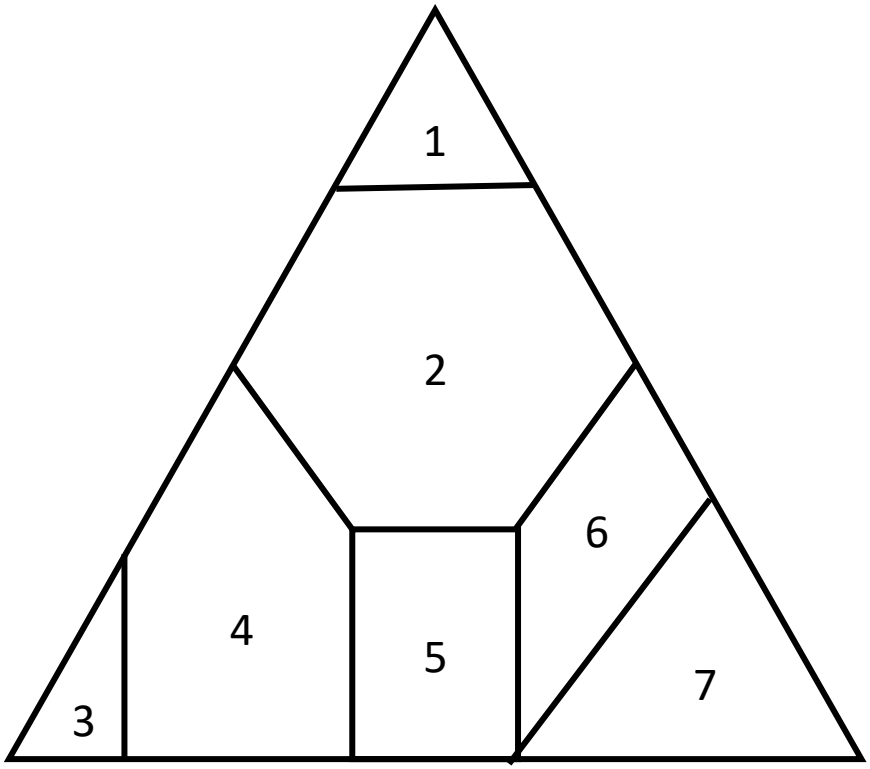
A. 3 rectangles and 3 hexagons

B. 2 pentagons, 2 hexagons, and 2 quadrilaterals

C. 2 hexagons and 4 quadrilaterals

D. 2 hexagons, 2 pentagons, and 2 rectangles

11. A figure is divided into 7 sections, as shown below.



Which two sections are quadrilaterals?

A. Sections 4 and 5

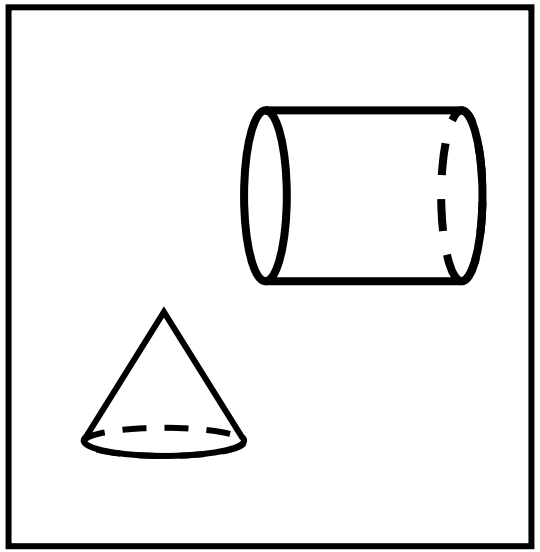
B. Sections 2 and 4

C. Sections 1 and 3

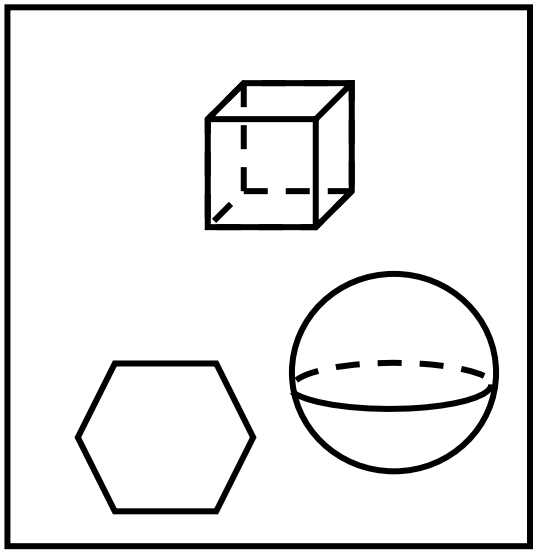
D. Sections 5 and 6

12. Sofia separated some figures into two sets. The figures in set A have a common characteristic. The figures in Set B do not have the characteristic.

Set A



Set B



Which of these is the best description of the common characteristic of the figures in Set A?

A. They have no vertices.

B. They have at least one circular base.

C. They have at least one edge.

D. They have faces that are polygons.

Unit: 3rd – Perimeter, Area & Geometry
Lesson: 3.6.A - 3.6.B - Classifying 2 and 3D figures
Problem Set: 3

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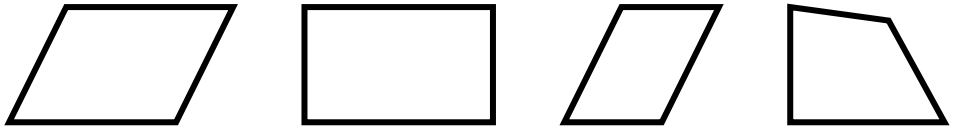
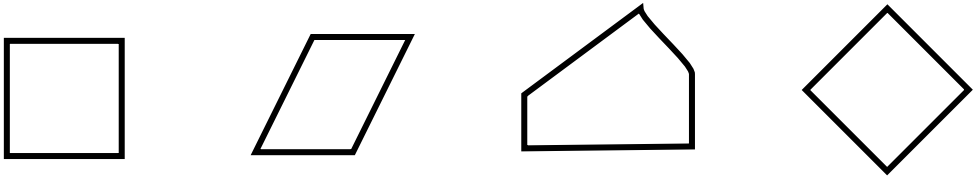
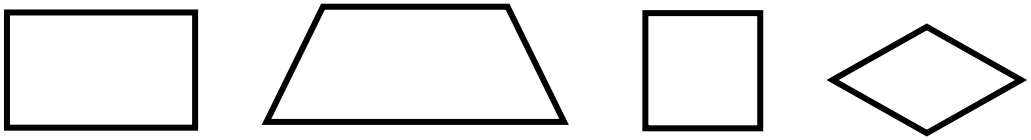
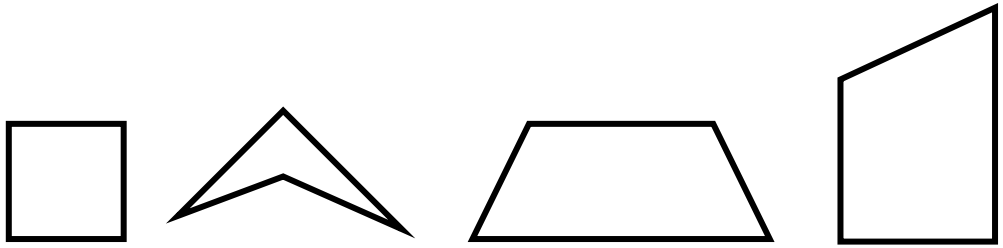
1. B	**2.** A	**3.** D	**4.** D	**5.** C	**6.** A
7. C	**8.** B	**9.** C	**10.** B	**11.** D	**12.** B
13. C	**14.** C	**15.** B	**16.** C	**17.** B	**18.** D
19. A	**20.** D	**21.** D	**22.** A	**23.** A	**24.** C
25. D	**26.** C	**27.** B	**28.** B	**29.** D	**30.** B

13. In which set do all the figures appear to be either a rhombus, a parallelogram, trapezoid, rectangle or square.

A. 

B. 

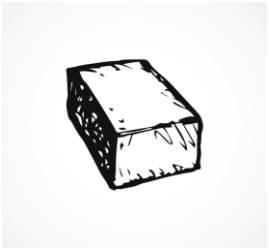
C. 

D. 

14. The objects can be classified into 2 groups based on their shape.

baseball

Toolbox



Brick

Orange

Which table best represents the classifications of these objects?

A.

Group	Object
Prism	Brick Toolbox
Cylinder	Baseball Orange

B.

Group	Object
Cube	Brick Toolbox
Sphere	Baseball Orange

C.

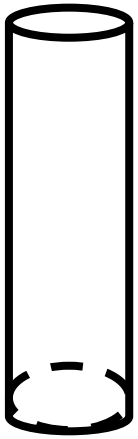
Group	Object
Prism	Brick Toolbox
Sphere	Baseball Orange

D.

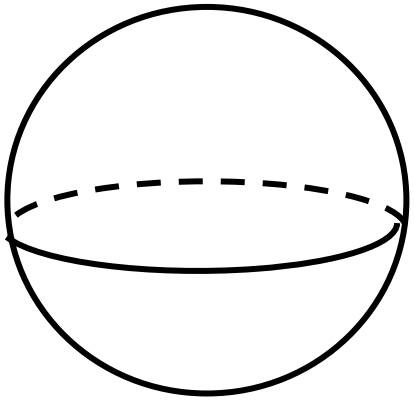
Group	Object
Sphere	Brick Toolbox
Prism	Baseball Orange

15. Which figure CANNOT be classified as a cylinder.

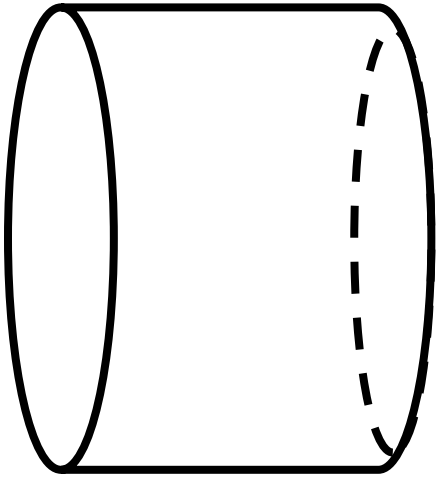
A.



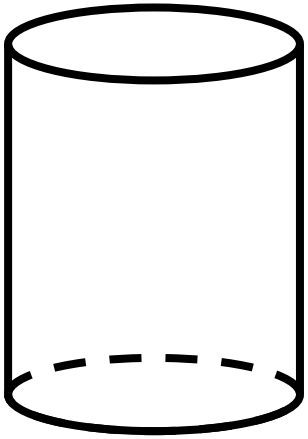
B.



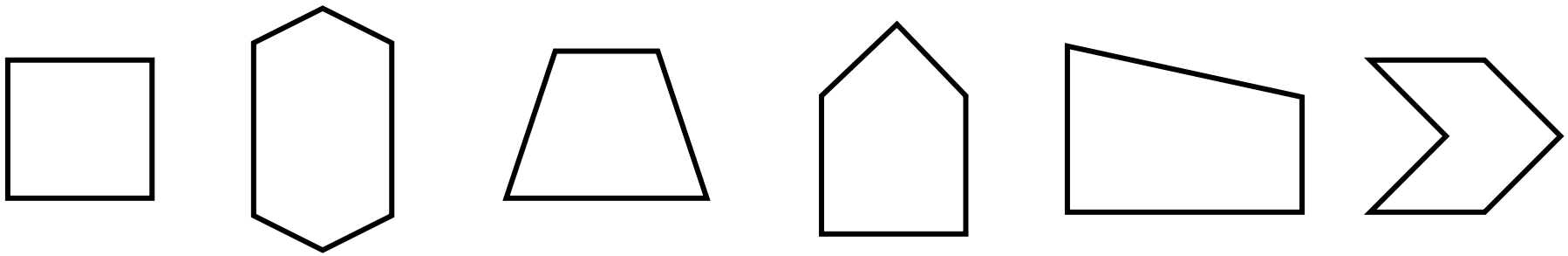
C.



D.



16. The figures shown can be sorted into groups.



Which of these shows a correct way to group these figures?

A. 3 rectangles and 3 hexagons

B. 2 hexagons and 4 quadrilaterals

C. 3 quadrilaterals, 2 hexagons, and 1 pentagon

D. 1 hexagon, 2 pentagons, and 3 quadrilaterals

17. Miracle put figures into groups based on certain attributes. Sometimes she put figures into more than one group.

Miracle's Figures

Group	Attribute
1	Must have all sides congruent
2	Has exactly 4 sides
3	Is a polygon

Which statement is true?

A. A square can be put into group 2 only

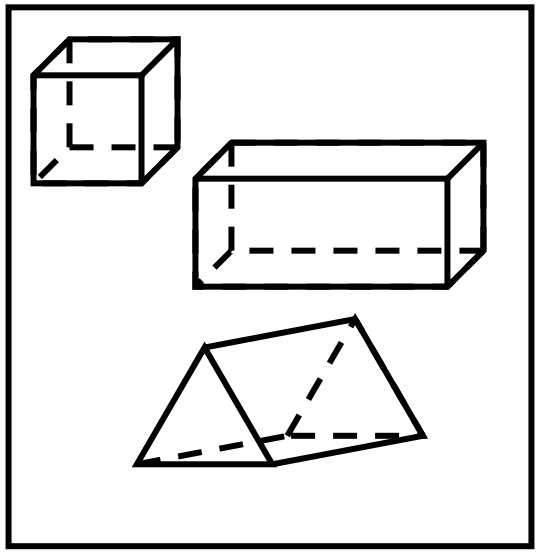
B. A triangle could be put into group 3 only

C. A rectangle could be put into groups 1 and 2 only

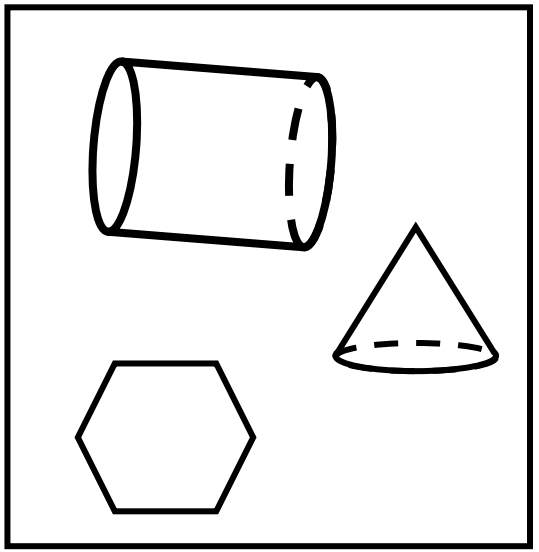
D. A pentagon could be put into group 1 only

18. Sofia separated some figures into two sets. The figures in set A have a common characteristic. The figures in Set B do not have the characteristic.

Set A



Set B



Which of these is the best description of the common characteristic of the figures in Set A?

A. They have no vertices.

B. They have at least one circular base.

C. They have edges that are congruent.

D. They have faces that are polygons.

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Problem Set: 4

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1. B	**2.** A	**3.** D	**4.** D	**5.** C	**6.** A
7. C	**8.** B	**9.** C	**10.** B	**11.** D	**12.** B
13. C	**14.** C	**15.** B	**16.** C	**17.** B	**18.** D
19. A	**20.** D	**21.** D	**22.** A	**23.** A	**24.** C
25. D	**26.** C	**27.** B	**28.** B	**29.** D	**30.** B

19. De'Odrick put figures into groups based on certain attributes. Sometimes he put figures into more than one group.

De'Odrick's Figures

Group	Attribute
1	Has all sides congruent
2	Has exactly 4 sides
3	Is a polygon

Which statement is true?

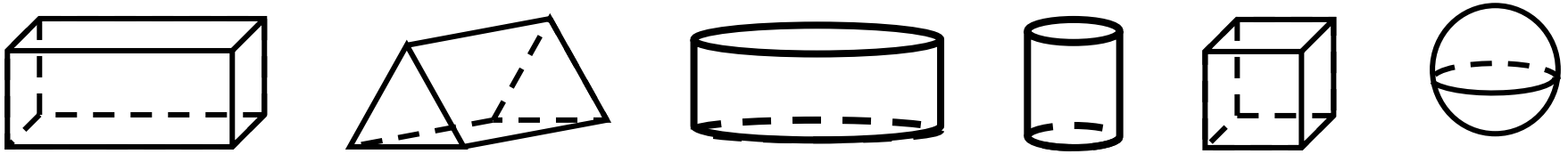
A. A rhombus could be put into all the groups

B. A triangle could be put into all the groups

C. A rectangle could be put into groups 1 and 2 only

D. A pentagon could be put into group 1 only

20. The figures shown can be sorted into groups.



Which list shows a correct way to group the figures?

A. 2 cubes, a prism, and 3 cylinders

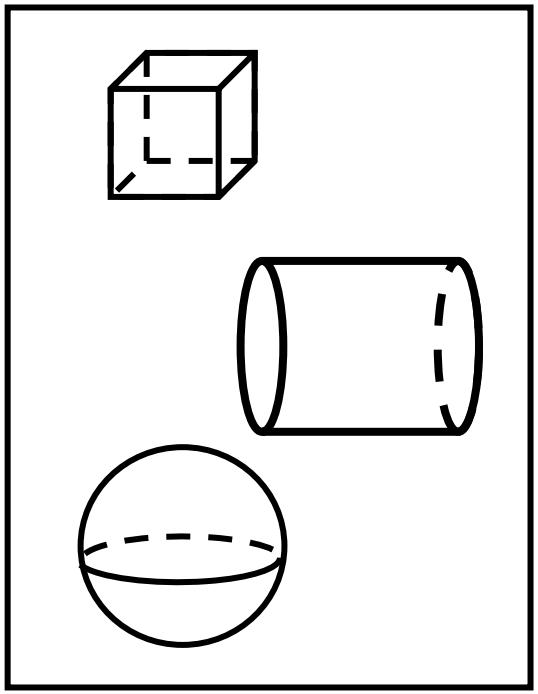
B. 5 prisms and 1 sphere

C. 2 prisms, 1 cylinder, 2 spheres, and 1 cube

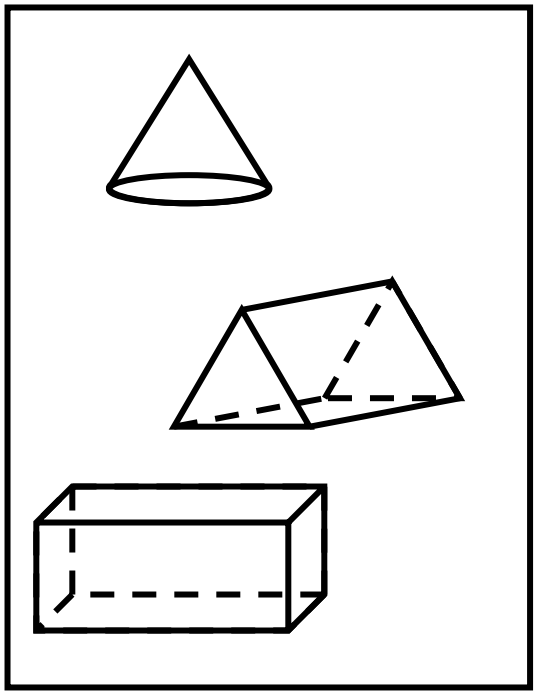
D. 3 prisms, 2 cylinders, and 1 sphere

21. Zayne sorted some figures into two groups.

Group X



Group Y



Which statement about the figures Zayne sorted is true?

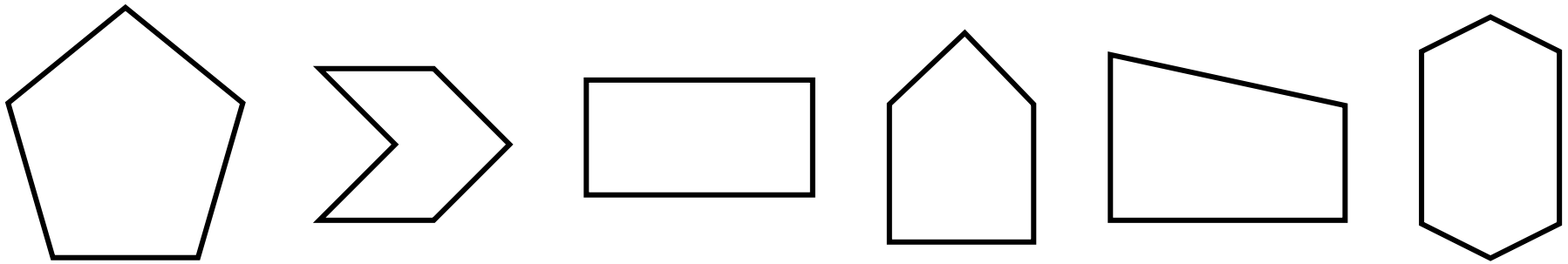
A. All the figures in Group X are cylinders.

B. All the figures in Group X are Prisms

C. All the figures in Group Y are prisms.

D. All the figures in Group Y have at least one vertex.

22. The figures shown can be sorted into groups.



Which of these shows a correct way to group these figures?

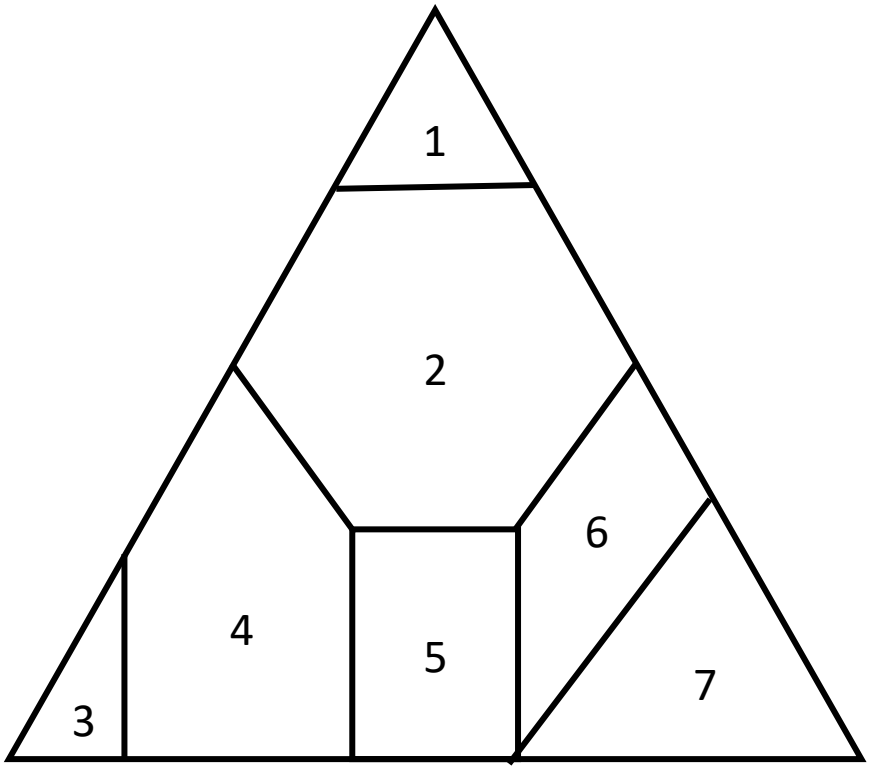
A. 2 hexagons, 2 pentagons, and 2 quadrilaterals

B. 3 rectangles and 3 hexagons

C. 2 hexagons and 4 quadrilaterals

D. 1 pentagon, 2 hexagons, and 3 quadrilaterals

23. A figure is divided into 7 sections, as shown below.



Which pair of sections contains a pentagon and a quadrilateral?

A. Sections 4 and 5

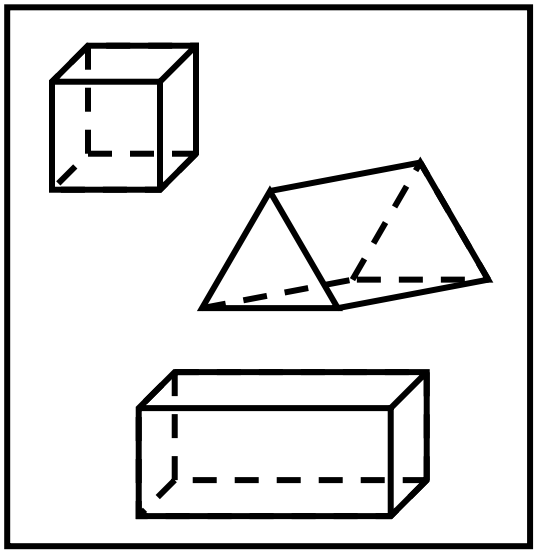
B. Sections 2 and 4

C. Sections 1 and 3

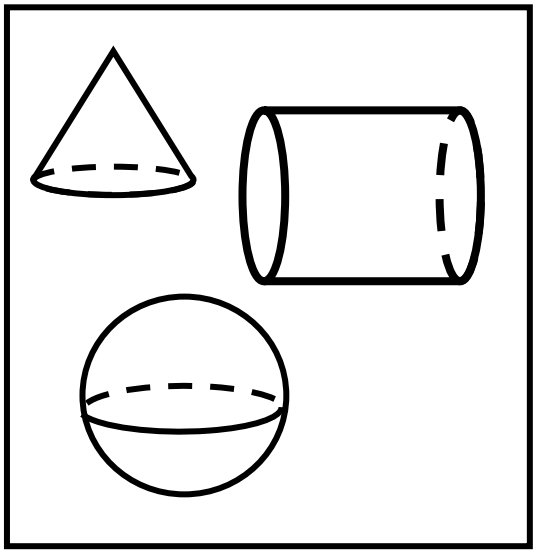
D. Sections 5 and 6

24. Sofia separated some figures into two sets. The figures in set A have a common characteristic. The figures in Set B do not have the characteristic.

Set A



Set B



Which of these is the best description of the common characteristic of the figures in Set A, but not set B?

A. They have only one vertex.

B. They have at least one circular base.

C. They have faces that are polygons.

D. They are three dimensional.

Unit: 3rd – Perimeter, Area & Geometry
Lesson: 3.6.A - 3.6.B - Classifying 2 and 3D figures
Problem Set: 5

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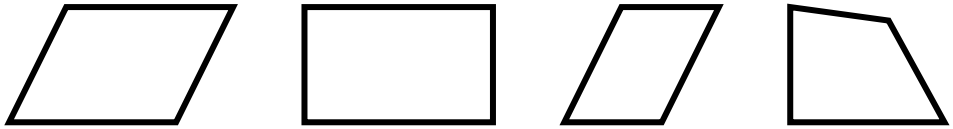
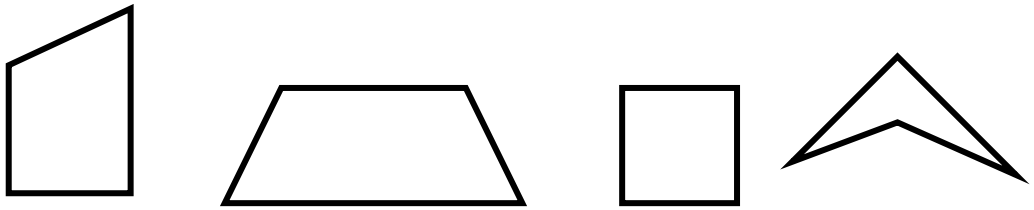
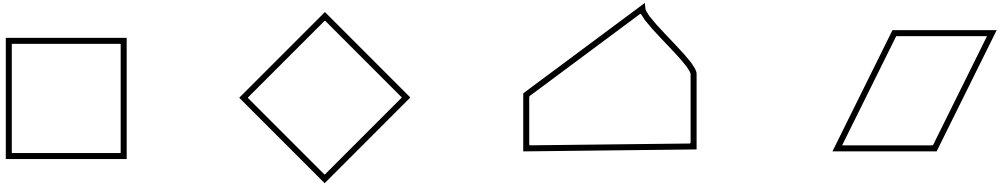
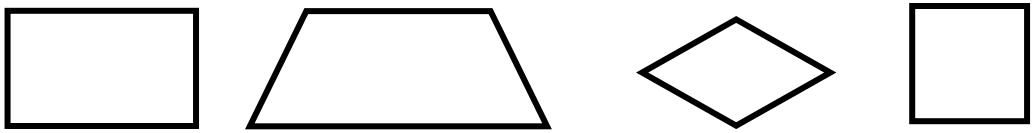
1. B	**2.** A	**3.** D	**4.** D	**5.** C	**6.** A
7. C	**8.** B	**9.** C	**10.** B	**11.** D	**12.** B
13. C	**14.** C	**15.** B	**16.** C	**17.** B	**18.** D
19. A	**20.** D	**21.** D	**22.** A	**23.** A	**24.** C
25. D	**26.** C	**27.** B	**28.** B	**29.** D	**30.** B

25. In which set do all the figures appear to be either a rhombus, a parallelogram, trapezoid, rectangle or square.

A. 

B. 

C. 

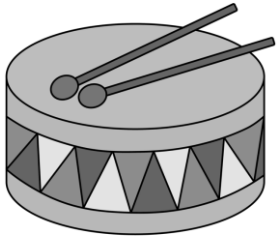
D. 

26. The objects can be classified into 2 groups based on their shape.

Can

Orange

Baseball



Drum

Which table best represents the classifications of these objects?

A.

Group	Object
Sphere	Orange Baseball
Prism	Can Drum

B.

Group	Object
Cube	Orange Baseball
Cylinder	Can Drum

C.

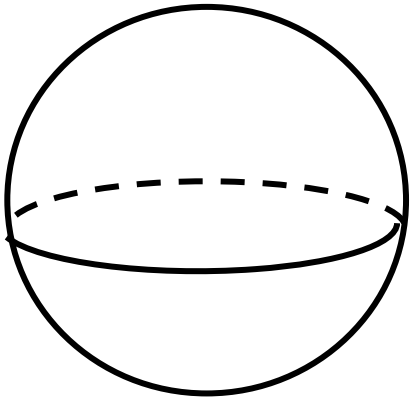
Group	Object
Sphere	Orange Baseball
Cylinder	Can Drum

D.

Group	Object
Cylinder	Orange Baseball
Sphere	Can Drum

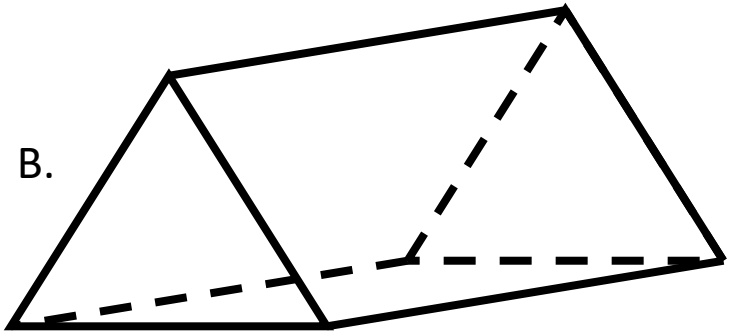
27. Circle ALL the shapes that can be classified as a prism.

A.

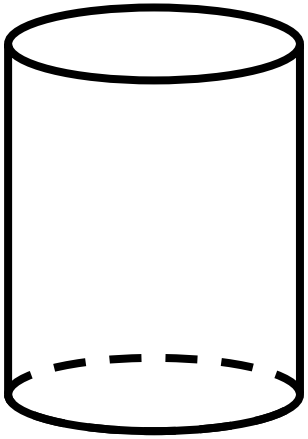


C.

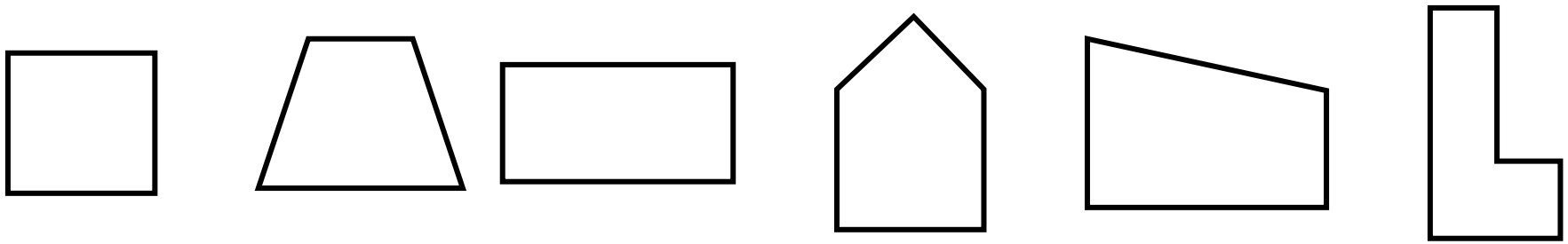
B.



D.



28. The figures shown can be sorted into groups.



Which of these shows a correct way to group these figures?

A. 3 rectangles and 3 hexagons

B. 4 quadrilaterals, 1 pentagon and 1 hexagon

C. 2 hexagons, 2 pentagons, and 2 rectangles

D. 1 pentagon, 2 hexagons, and 3 quadrilaterals

29. Josiah put figures into groups based on certain attributes. Sometimes he put figures into more than one group.

Josiah's Figures

Group	Attribute
1	Has all sides congruent
2	Has exactly 4 sides
3	Is a polygon

Which statement is true?

A. A square could be put into group 1 only.

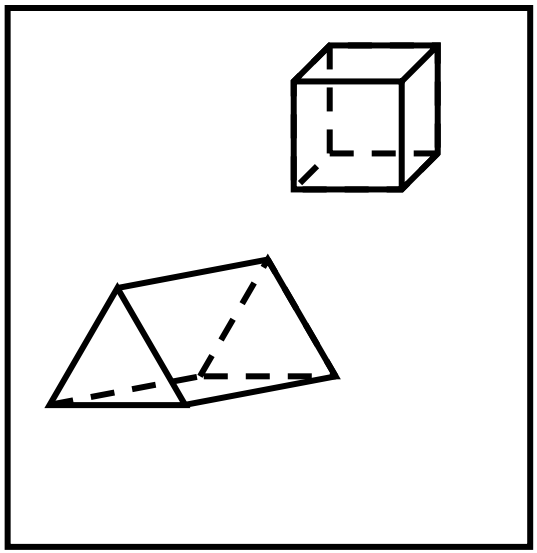
B. A triangle could be put into all the groups

C. A rectangle could be put into groups 1 and 2 only

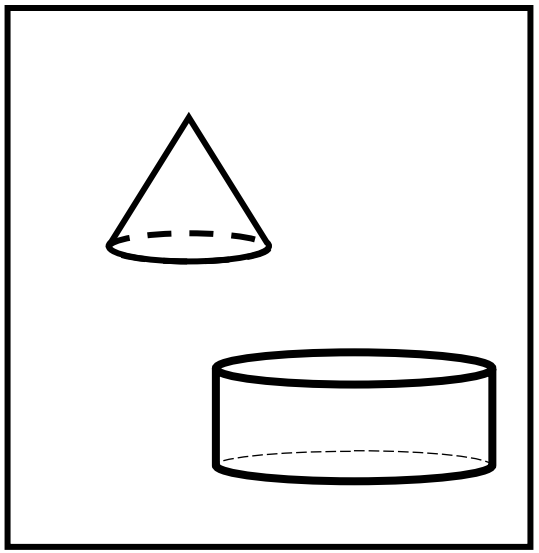
D. A pentagon could be put into group 3 only

30. Select all the answers that are true of Set A that are not true of Set B.

Set A



Set B



A. They have only one vertex.

B. They can be considered prisms.

C. They have circular bases.

D. They are three dimensional.