Name: _____     Date: _____
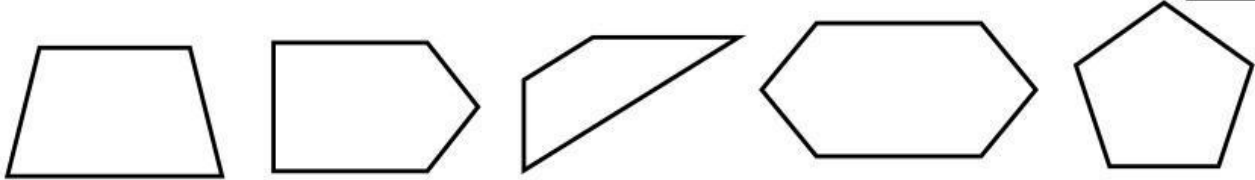
# 3rd Grade Math STAAR Geometry Assessment

1  A group of figures are shown.

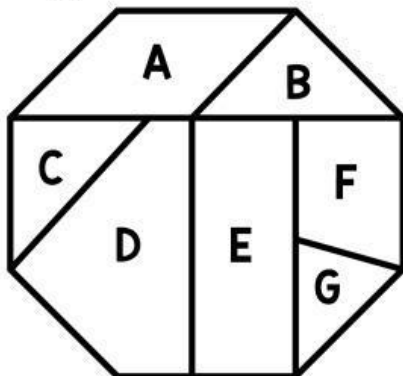Which describes the group of figures?

A 2 trapezoids, 3 pentagons

B 2 trapezoids, 1 hexagon, 2 pentagons

C 3 trapezoids, 2 pentagons

D 3 pentagons, 2 hexagons

TEKS 3.6A

2  David made an octagon with shapes. Each shape that David used to make the octagon has been labeled with a letter.

A   B
C   F
D   E   G

How many quadrilaterals did David use to make the octagon?
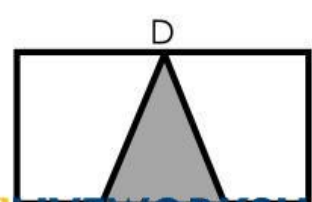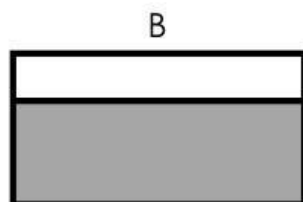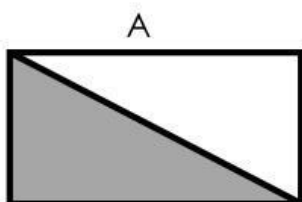
Write your answer in the space provided.

TEKS 3.6B

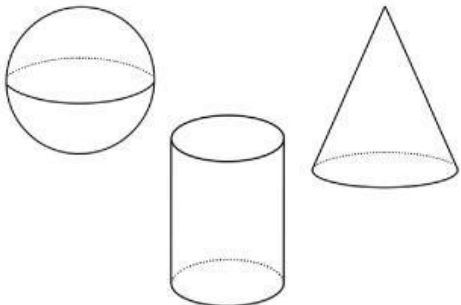3  A part of Rectangle Y has been shaded.
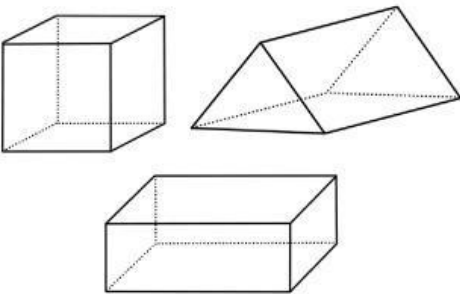
**Rectangle Y**

Which rectangles have the same amount of area shaded as Rectangle Y?
Select **two** correct answers.

A          B          C          D

TEKS 3.6B

4 Isabell sorted three-dimensional figures into two groups.

**Three-Dimensional Figures**

| Group Y | Group Z |
|---------|---------|
|  |  |

Which statement about the figures is true?

A The figures in Group Y have vertices.

B The figures in Group Z each have triangular faces.

C The figures in Group Y each have rectangular faces.
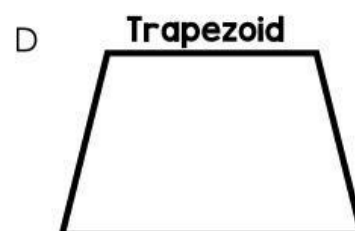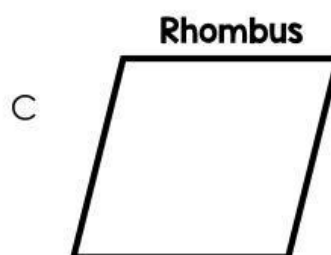
D The figures in Group Z are prisms.

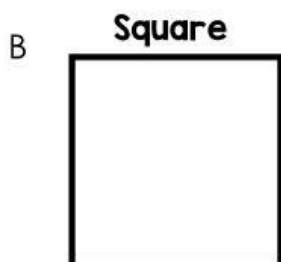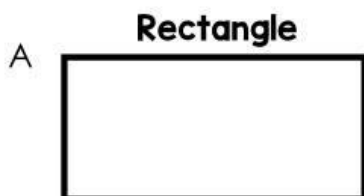TEKS 3.6A

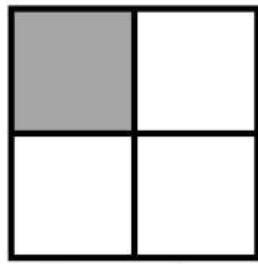5 Matthew will sort quadrilaterals into groups. The statement describes one group he make.

## Quadrilaterals with 4 congruent sides.

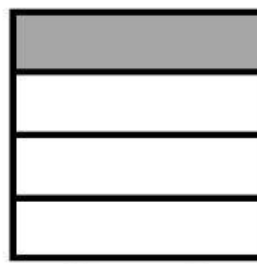Which of the following shapes can be placed with the group described above?

Select **two** correct answers.

A **Rectangle**


B **Square**


C **Rhombus**


D **Trapezoid**

TEKS 3.6B

6 The two squares shown are congruent. A part of each square has been shaded.



**Figure A**          **Figure B**

Choose the correct answer from the drop-down menu to complete the statement.

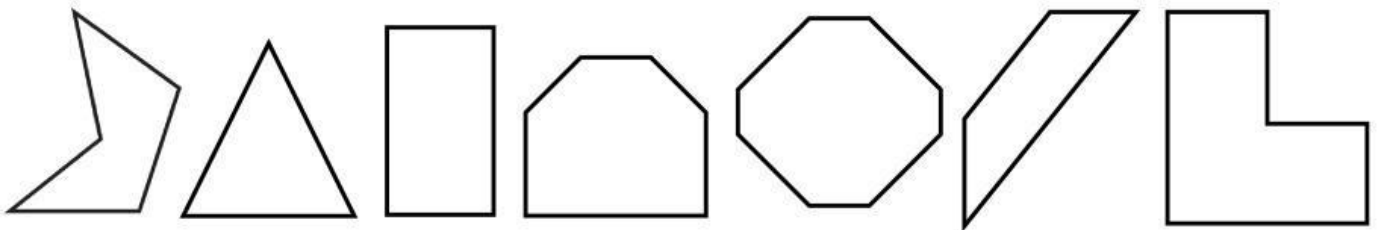The shaded area of Figure A is [          ] the shaded area of Figure B.

| A less than |
| B equal to |
| C greater than |

7 A group of shapes are shown.
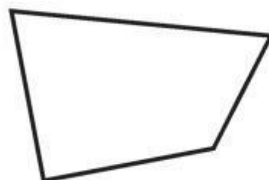


How many of the shapes shown have more sides than a quadrilateral?

Write your answer in the box provided.

8 A figure is shown.



Which word describes the figure shown?
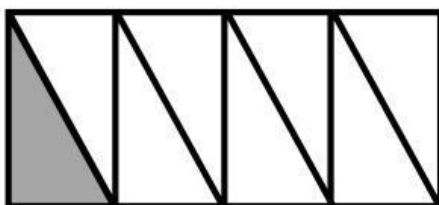
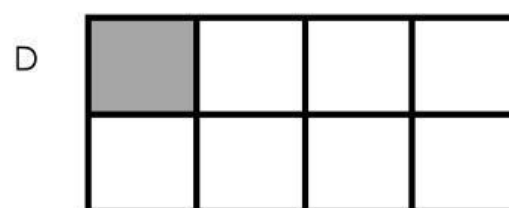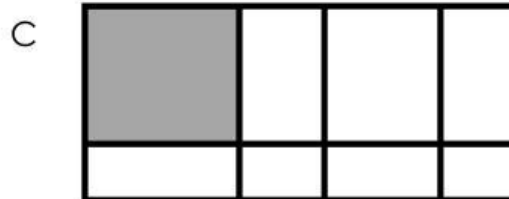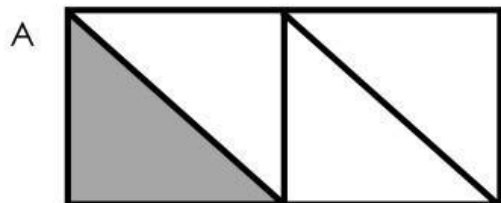A Trapezoid          B Rectangle          C Quadrilateral          D Square
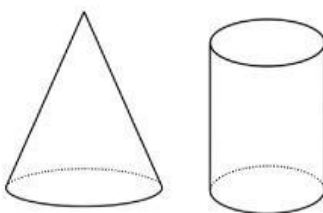
9 A part of Rectangle Z has been shaded.

**Rectangle Z**



Which rectangle has the same amount of area shaded as Rectangle Z?

A 

C 

B 

D 

10 A cylinder and cone are shown.



Choose the correct answer from the drop-down menu to complete the statement.

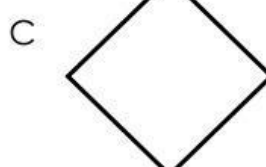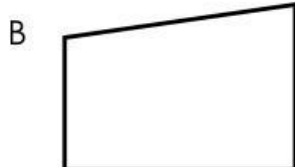The cylinder and cone each have at least one ⬚ .
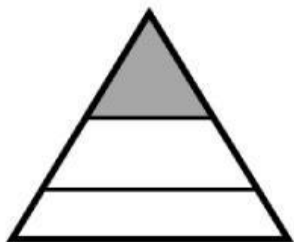
A face

B edge

C vertex

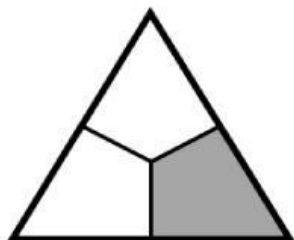11 Which figure is a trapezoid?

A 

B 

C 

D

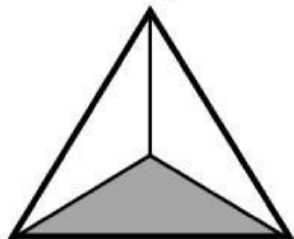12 Luis will sort the triangles shown in the table shown.

**Triangle A**
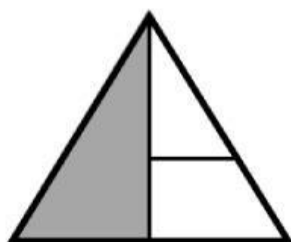
**Triangle C**

**Triangle B**

**Triangle D**

### Triangles Sort

| Equal Amount of Area Shaded | Equal Amount of Area NOT shaded |
|---|---|
| | |

Which triangles could be placed in the category "equal amount of area shaded?

Select **two** correct answers.
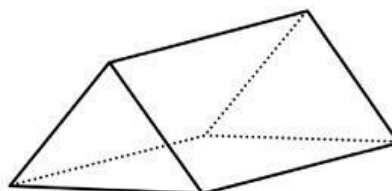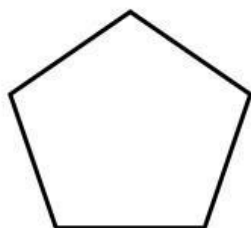
A Triangle A

C Triangle C

B Triangle B

D Triangle D

TEKS 3.6E

13  A pentagon and triangular prism are shown.

How are a pentagon and triangular prism alike?

A Each figure is a flat shape.

B Each figure is three-dimensional.
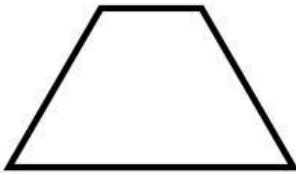
C Each figure has vertices.

D Each figure is a quadrilateral.

14 Which of the figures shown are NOT trapezoids?

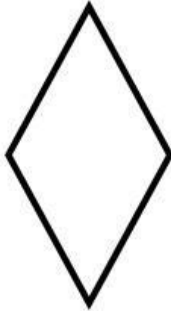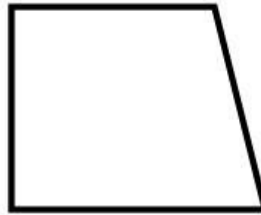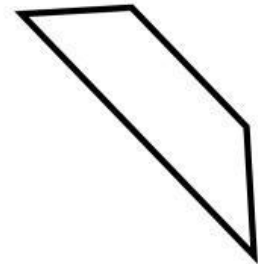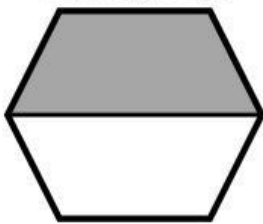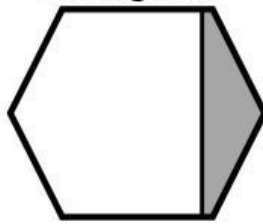Select **three** correct answers.

A

C

E

B

D

F

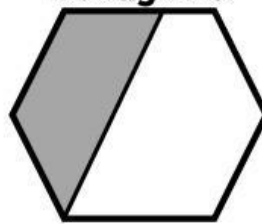15 Cynthia drew four congruent hexagons. She shaded a part of each hexagon.

**Hexagon A**
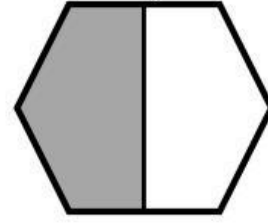
**Hexagon B**

**Hexagon C**

**Hexagon D**
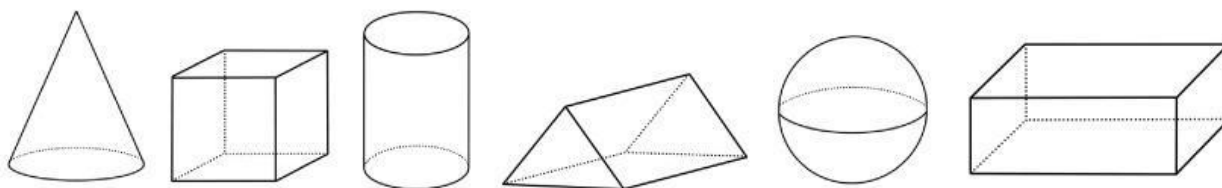
Choose the correct answer from the drop-down menu to complete the statement.

have the same amount of area shaded.

A Hexagon A and Hexagon C

B Hexagon C and Hexagon D

C Hexagon A and Hexagon B

D Hexagon A and Hexagon D

**16** A group of three-dimensional figures are shown.



How many of the figures shown have 6 faces, 12 edges, and 8 vertices?

Write your answer in the box provided.

**17** A group of figures are shown.



| **Figure A** | **Figure B** | **Figure C** | **Figure D** |

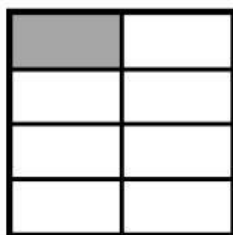Which statement about the figures is NOT true?

A Figure A is a rhombus.

C Figure C is a trapezoid.

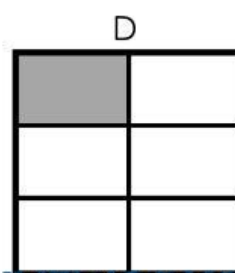B Figure B is a rectangle.
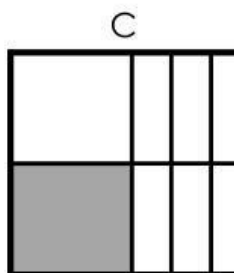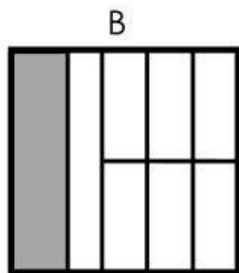
D Figure D is a square. .
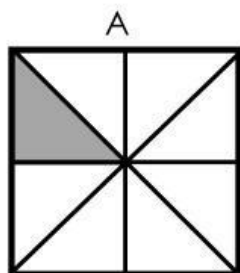
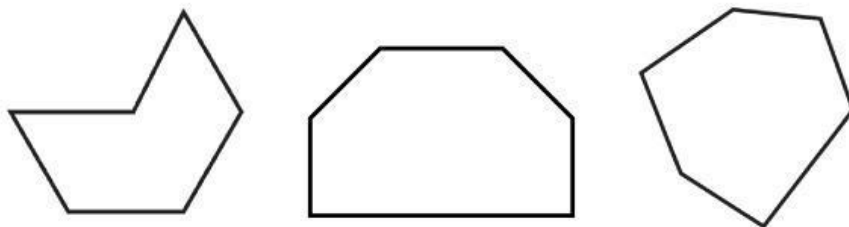**18** A portion of a Square Z has been shaded.

**Square Z**



Which square has the same amount of area shaded as Square Z?

A      B      C      D

19 A group of figures are shown.
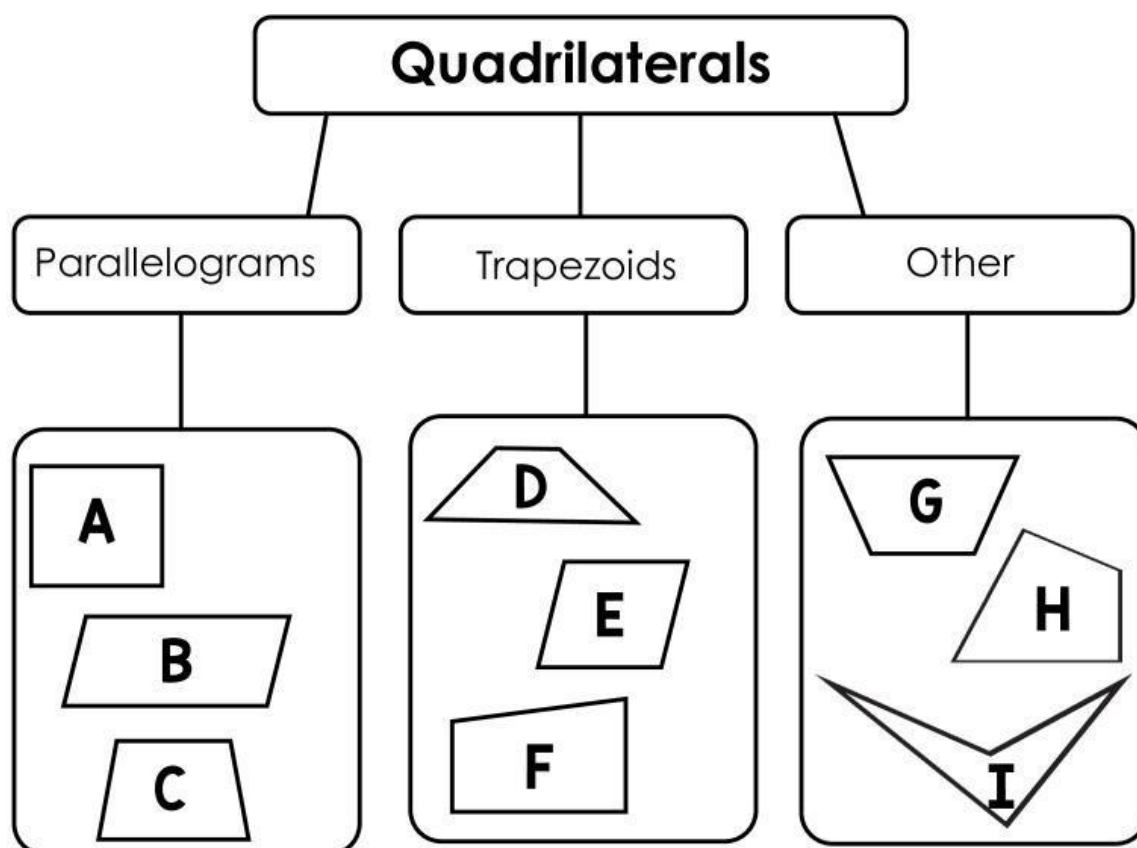


Which statement about the group of figures is true?

A All of the figures are octagons.

B All of the figures are hexagons.

C All of the figures are prisms.

D All of the figures are pentagons.

20 Leslie used a diagram to classify quadrilaterals. The table shows the way Leslie classified the quadrilaterals.
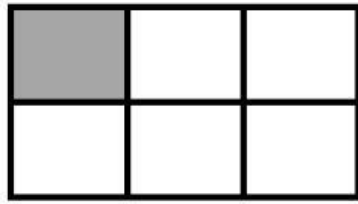
Which quadrilaterals did Leslie classify incorrectly?
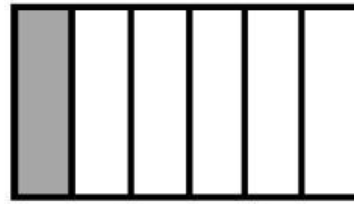
Circle **three** correct answers.

21 Two congruent rectangles have each been divided into equal parts.



**Figure Y**          **Figure Z**

Which statement is true?

A Figure Y and Figure Z each represent the fraction $\frac{1}{8}$ ,because 1 part of 8 equal parts have been shaded.

B Figure Y and Figure Z do not have the same amount of area shaded, because Figure Z has a greater area shaded than Figure Y.

C Figure Y and Figure Z each represent the fraction $\frac{1}{6}$ , because 1 part of 6 equal parts have been shaded.

D Figure Y and Figure Z do not have the same amount of area shaded, because Figure Y has a greater area shaded than Figure Z.
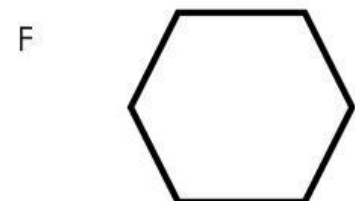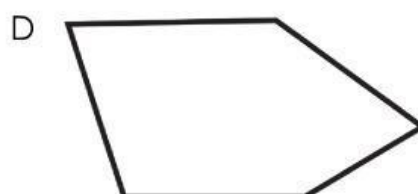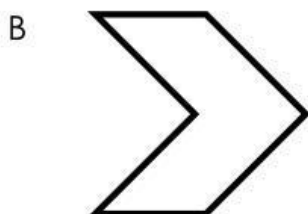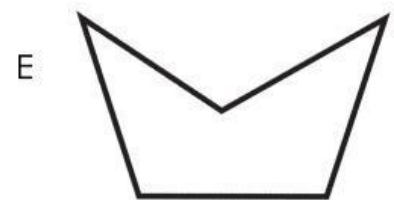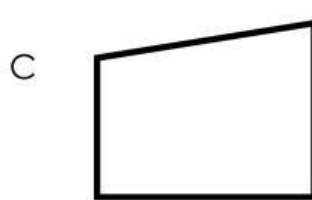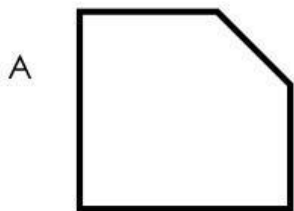
TEKS 3.6E

22 Tony will sort figures into groups. The statement describes figures Tony will place in one group.

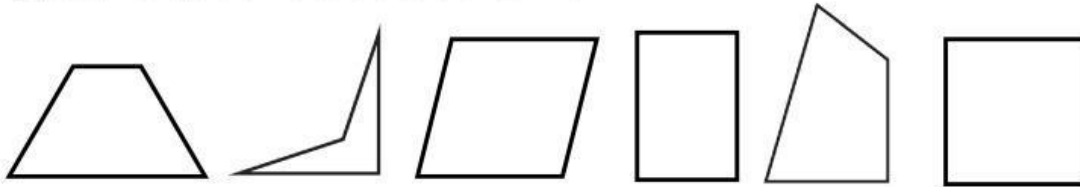## Figures with exactly 5 sides.

Which figures could be placed with the group described by the statement?

Select **three** correct answers.

A 

C 

E 

B 

D 

F

23 A group of quadrilaterals are shown.

How many of the quadrilaterals shown are NOT either a rhombus, square, trapezoid, or rectangle?

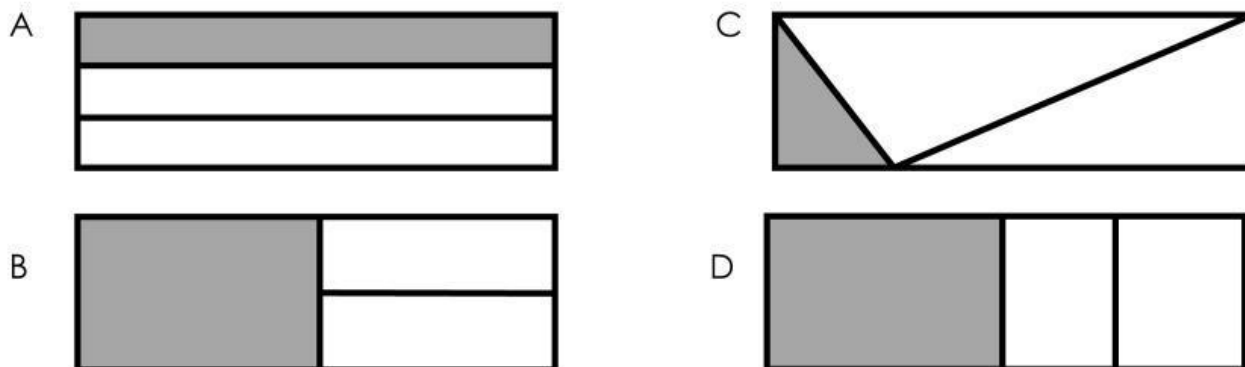Write your answer in the box provided.
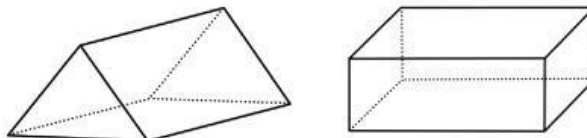
24 A part of Rectangle W has been shaded.

**Rectangle W**

Which rectangle has the same amount of area shaded as Rectangle W?

A

C

B

D

25 A triangular prism and a rectangular prism is shown.

Choose the correct answer from the drop-down menu to complete the statement.

A triangular prism and a rectangular prism each have [              ] .

A 12 vertices

B Rectangular faces

C Triangular Faces