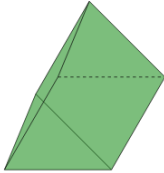




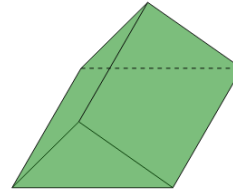
Geometry Basics - Advanced

1 Name the type of shape



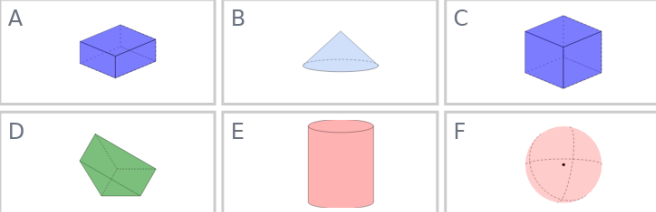
- | | | |
|--------------------|----------|---------------------|
| A Triangular Prism | B Cone | C Rectangular Prism |
| D Cylinder | E Sphere | F Cube |

2 Is this shape a Triangular Prism (a triangular base and parallel sides coming to a triangular top)?



- | |
|-------|
| A Yes |
| B No |

3 Select the shape that is named
Triangular Prism



4 What shape does this object have?



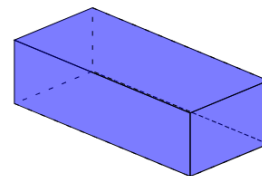
- | | | |
|---------------------|------------|--------|
| A Rectangular Prism | B Cylinder | C Cone |
| D Triangular Prism | E Sphere | |

5 Is this shape a Cube (right angle corners and 6 faces that are squares)?



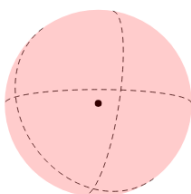
- | |
|-------|
| A Yes |
| B No |

6 Name the type of shape



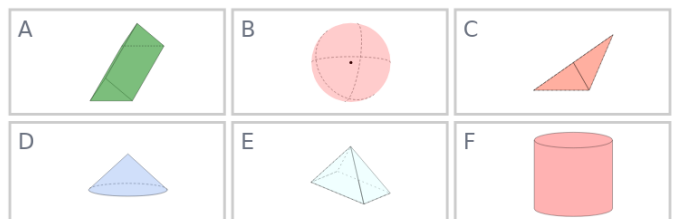
- | | | |
|---------------------|---------------|--------------------|
| A Rectangular Prism | B Cylinder | C Sphere |
| D Cone | E Tetrahedron | F Pentagonal Prism |

7 Is this shape a Rectangular Prism (right angle corners and 6 faces that are rectangles)?



- | |
|-------|
| A No |
| B Yes |

8 Select the shape that is named
Cylinder

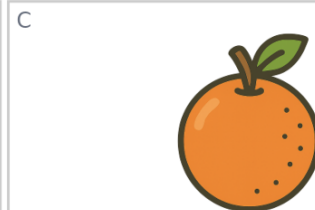




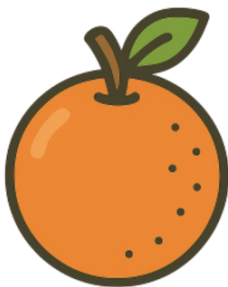
Geometry Basics - Advanced

9 Find an object that is this shape

Cone

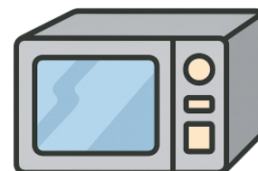


10 Is this object a prism, pyramid, or neither



- A prism
- B neither
- C pyramid

11 What shape does this object have?



- A Tetrahedron
- B Rectangular Pyramid
- C Cylinder
- D Hexagonal Prism
- E Cone
- F Rectangular Prism

12 This shape is a pyramid



- A False
- B True

13 Is this shape a Triangular Prism (a triangular base and parallel sides coming to a triangular top)?



- A No
- B Yes



Geometry Basics - Advanced

14 Select the object that is a pyramid

pyramid

A 	B 	C 
D 	E 	F 

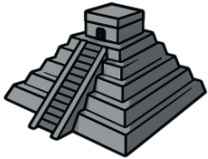
15 In geometry, a shape with 3 sides is called what?

3 sides

A triangle	B total
---------------	------------

16 Find an object that is this shape

Tetrahedron

A 	B 	C 
D 	E 	F 

17 A shape with 6 sides would have what name?

6 sides

A quadrilateral	B octagon
C triangle	D pentagon
E hexagon	

18 A shape called a 'quadrilateral' means it has how many sides?

quadrilateral

A 4	B 5	C 2
D 7	E 6	

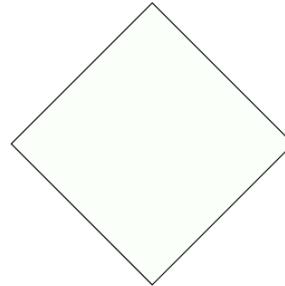


Geometry Basics - Advanced

19 Which of these pictures has rotation symmetry?



20 Name the type of shape



A pentagon

B octagon

C hexagon

D quadrilateral

21 Does this picture have rotation symmetry?



A Yes

B No

22 How many orders of rotation symmetry does this picture have?



A 10

B 5

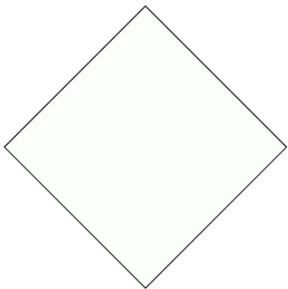
C 1

D 2

E 11

F 4

23 Name the type of shape



A pentagon

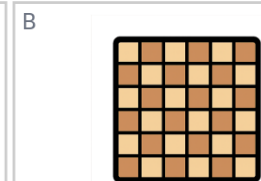
B octagon

C hexagon

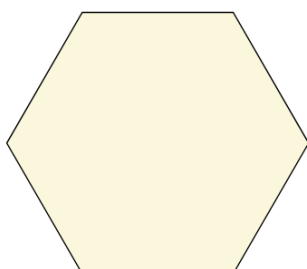
D quadrilateral

24 Which picture has order 5 rotational symmetry?

5



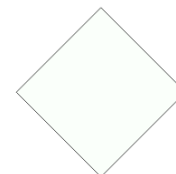
25 Name the type of shape



A Regular

B Irregular

26 Name the type of shape



A Irregular octagon

B Regular pentagon

C Regular hexagon

D Regular quadrilateral

E Regular octagon

F Irregular quadrilateral

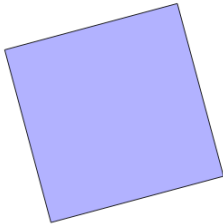


Geometry Basics - Advanced

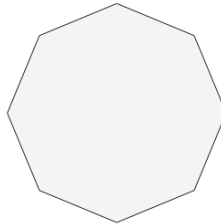
27 Select the shape that is named

Pentagon

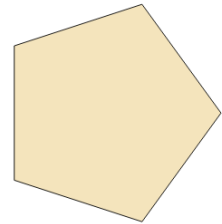
A



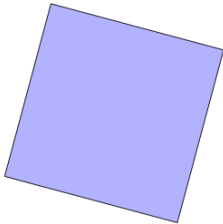
B



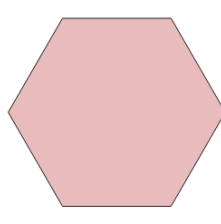
C



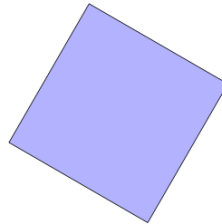
D



E



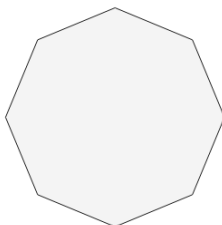
F



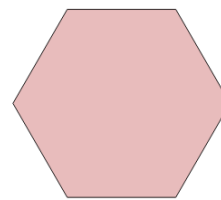
28 Select the shape that is named

Square

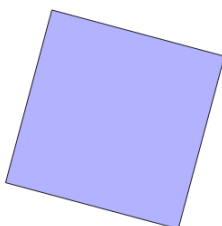
A



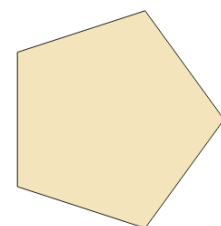
B



C



D





Geometry Basics - Advanced

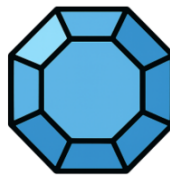
29 Select the object that has this shape

Pentagon

A



B



C



D



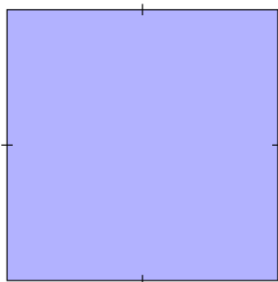
E



F



30 Is the shape a parallelogram



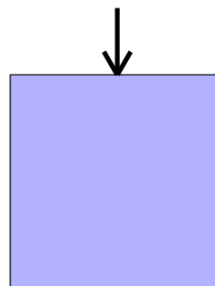
A

Not a
Parallelogram

B

Parallelogram

31 What is the arrow pointing to on this shape?



A

side

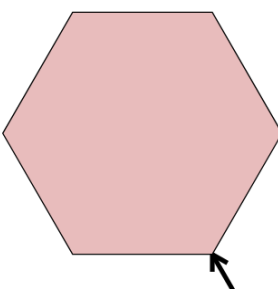
B

face

C

vertex

32 What is the arrow pointing to on this shape?



A

face

B

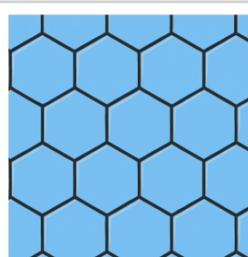
side

C

vertex

33 Which of these pictures has translation symmetry?

A



B

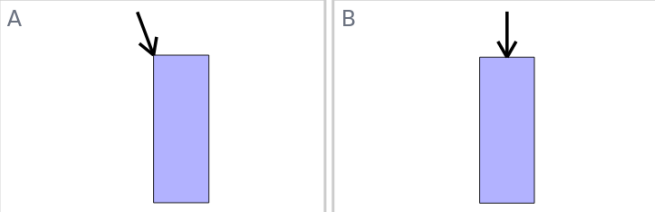




Geometry Basics - Advanced

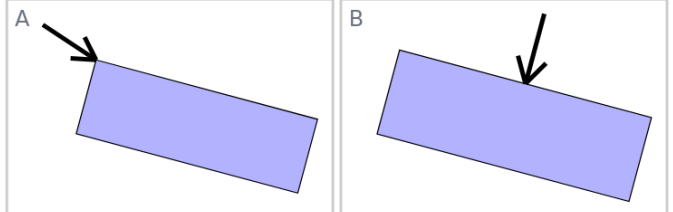
34 Which arrow is pointing to a vertex of the Rectangle?

Rectangle: vertex

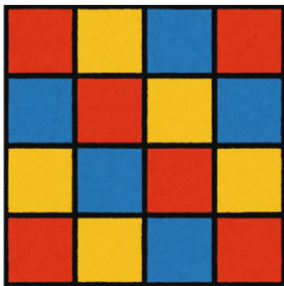


35 Which arrow is pointing to a vertex of the Rectangle?

Rectangle: vertex



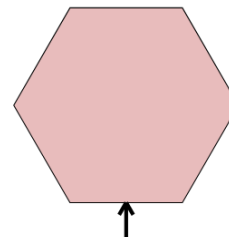
36 Does this pattern have translation symmetry?



A No

B Yes

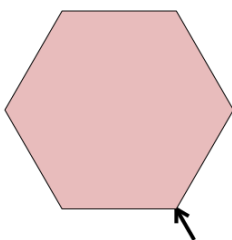
37 Is the arrow pointing to a side on this shape?



A Yes

B No

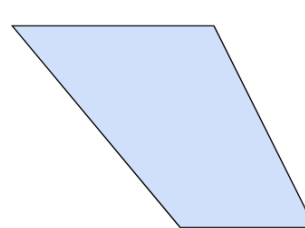
38 Is the arrow pointing to a vertex on this shape?



A Yes

B No

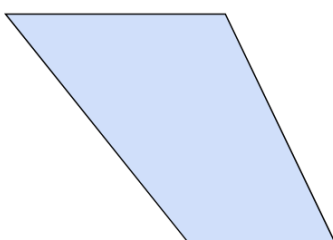
39 How many vertices (corners) does this shape have?



A 2 Vertices

B 4 Vertices

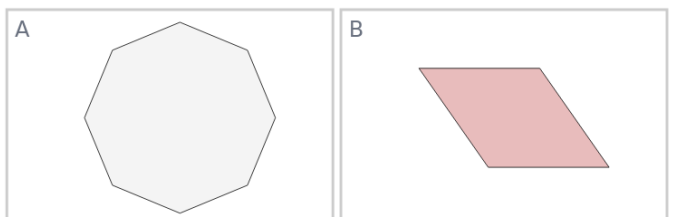
40 Count the number of vertices (corners) that the shape has.



A 2
B 3
C 4
D 5

41 Select the shape that is described

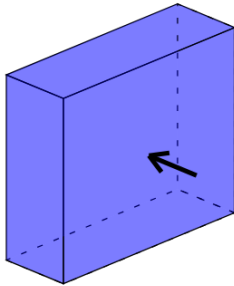
8 vertices





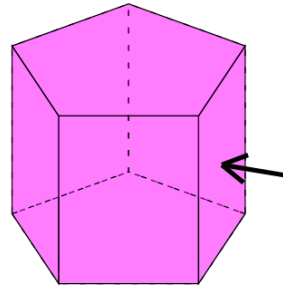
Geometry Basics - Advanced

42 What is the arrow pointing to on this shape?



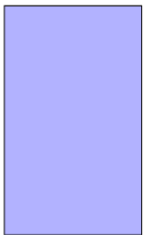
- A face
- B side
- C vertex

43 What is the arrow pointing to on this shape?



- A side
- B face
- C vertex

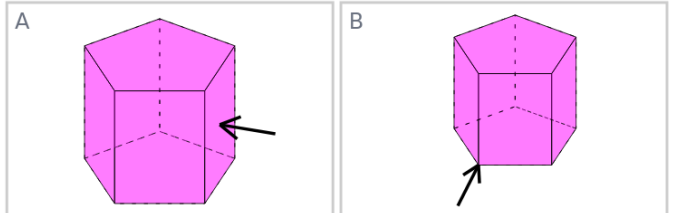
44 How many sides and vertices (corners) does this shape have?



- A 3 Sides and 5 Vertices
- B 4 Sides and 4 Vertices

45 Which arrow is pointing to a face of the Pentagonal Prism?

Pentagonal Prism: face



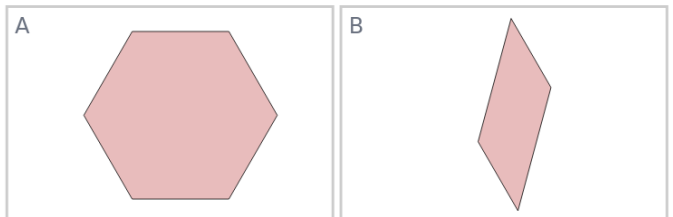
46 Count the number of sides and vertices that the shape has.



- A 4 sides, 5 vertices
- B 3 sides, 2 vertices
- C 4 sides, 3 vertices
- D 5 sides, 4 vertices
- E 4 sides, 4 vertices
- F 5 sides, 3 vertices

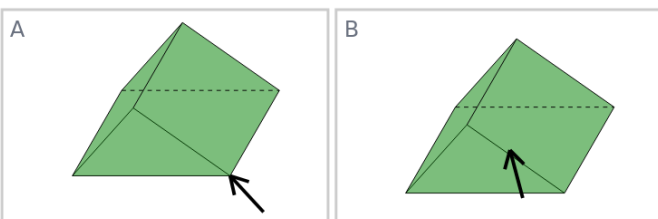
47 Select the shape that is described

6 sides, 6 vertices

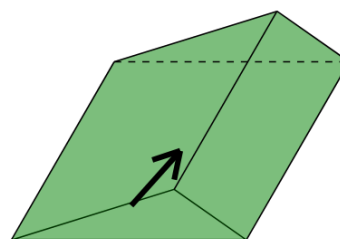


48 Which arrow is pointing to a face of the Triangular Prism?

Triangular Prism: face



49 Is the arrow pointing to a side on this shape?

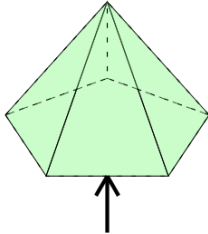


- A No
- B Yes



Geometry Basics - Advanced

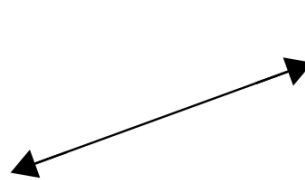
50 Is the arrow pointing to a side on this shape?



A
No

B
Yes

51 What is the fancy math name for an object that goes forever in both directions?



A
Lackadaisical

B
Line

52 Identify whether this is a line, a segment, or a ray

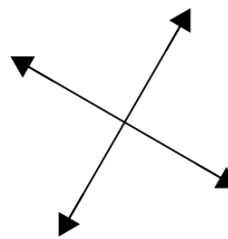


A
line

B
ray

C
segment

53 Identify whether these lines are parallel, perpendicular, or intersecting

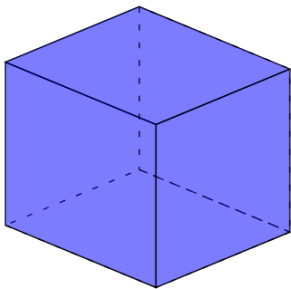


A
parallel

B
perpendicular

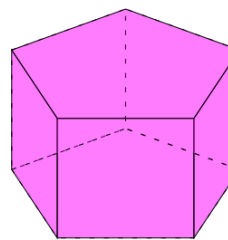
C
intersecting

54 How many edges does this shape have? **55** How many vertices (corners) does this shape have?



A
11 Edges

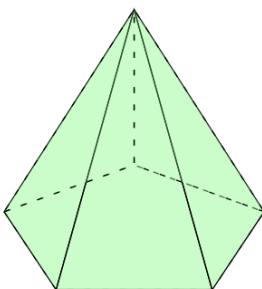
B
12 Edges



A
10 Vertices

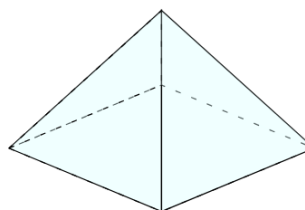
B
8 Vertices

56 How many faces does this shape have? **57** Is the shape a prism, pyramid, or neither



A
6 Faces

B
4 Faces



A
neither

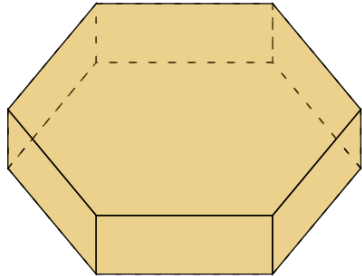
B
pyramid

C
prism



Geometry Basics - Advanced

58 This shape is a prism



A False

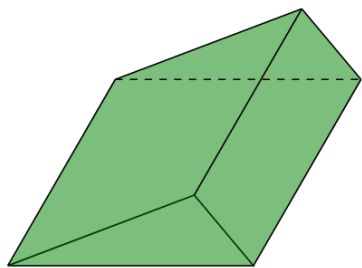
B True

59 Select the shape that is a pyramid

pyramid



60 Count how many edges this shape has



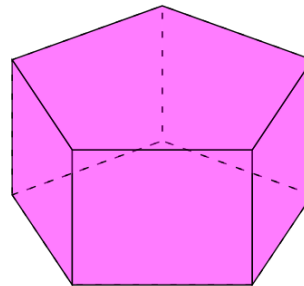
A 9

B 8

C 10

D 7

61 Count how many vertices this shape has



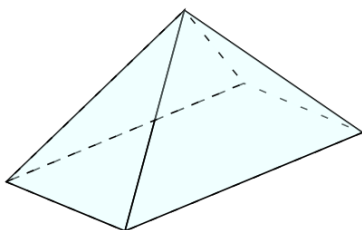
A 8

B 11

C 10

D 9

62 Count how many faces this shape has



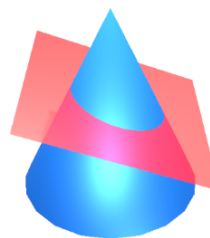
A 5

B 3

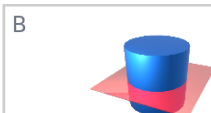
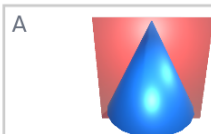
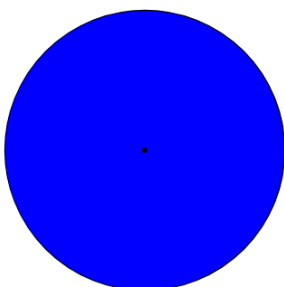
C 6

D 4

63 What shape is formed by the cross section of this Cone?

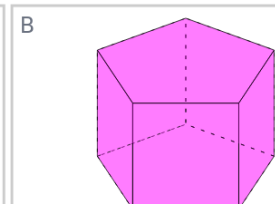
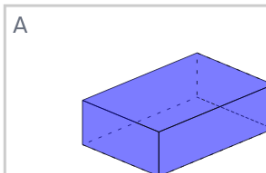


64 Which cross section would be a Circle?



65 Select the shape that is described

15 edges



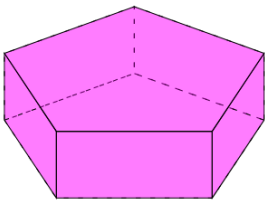


Geometry Basics - Advanced

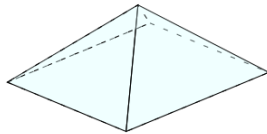
66 Select the shape that is described

5 vertices

A



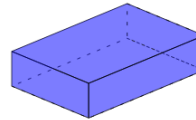
B



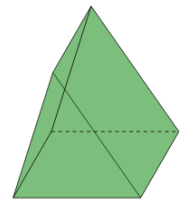
67 Select the shape that is described

5 faces

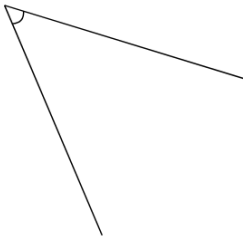
A



B



68 In geometry, what's the name for an angle that's less than 90°



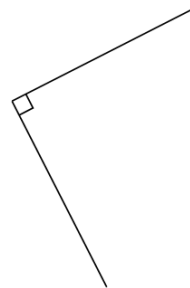
A

Alternative

B

Acute

69 Name the type of angle



A

obtuse

B

straight

C

acute

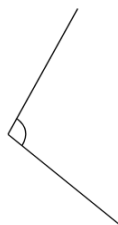
D

right

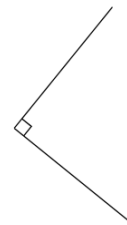
70 Find the image that shows an example of the type of angle

Obtuse

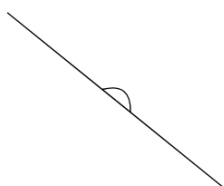
A



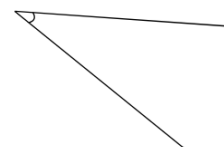
B



C



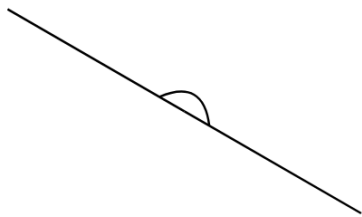
D





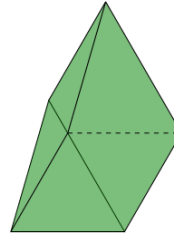
Geometry Basics - Advanced

71 Identify whether the angle is 90, 180, or 270 degrees



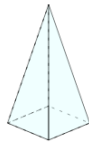
- | | |
|---|-----|
| A | 90 |
| B | 180 |
| C | 270 |

72 How many edges and vertices (corners) does this shape have?



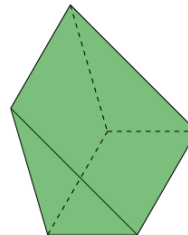
- | | |
|---|------------------------|
| A | 7 Edges and 5 Vertices |
| B | 9 Edges and 6 Vertices |

73 Count how many edges and vertices this shape has



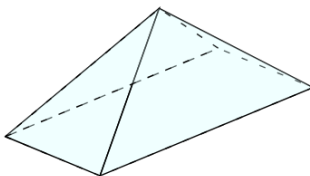
- | | | |
|-----------------------|-----------------------|-----------------------|
| A 8 edges, 5 vertices | B 8 edges, 3 vertices | C 9 edges, 6 vertices |
| D 6 edges, 4 vertices | E 8 edges, 4 vertices | F 6 edges, 6 vertices |

74 How many edges and faces does this shape have?



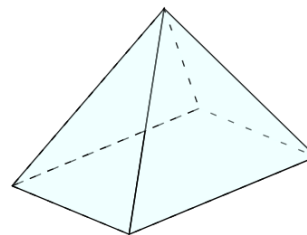
- | | |
|---|----------------------|
| A | 10 Edges and 3 Faces |
| B | 9 Edges and 5 Faces |

75 Count how many edges and faces this shape has



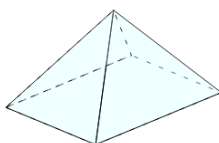
- | | | |
|--------------------|--------------------|--------------------|
| A 8 edges, 5 faces | B 6 edges, 3 faces | C 8 edges, 4 faces |
| D 7 edges, 6 faces | E 6 edges, 4 faces | F 9 edges, 4 faces |

76 How many faces and vertices (corners) does this shape have?



- | | |
|---|------------------------|
| A | 5 Faces and 5 Vertices |
| B | 6 Faces and 6 Vertices |

77 Count how many faces and vertices this shape has



- | | | |
|-----------------------|-----------------------|-----------------------|
| A 4 faces, 3 vertices | B 4 faces, 6 vertices | C 6 faces, 5 vertices |
| D 5 faces, 5 vertices | E 4 faces, 5 vertices | F 3 faces, 3 vertices |

78 Select the shape that is described
12 edges, 7 vertices

