

Solid Figures

Write the name of each solid figure. Use the word bank.

Word bank:

cube

rectangular prism

triangular prism

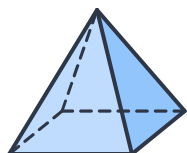
square pyramid

cylinder

cone

sphere

Name each solid figure.



Example

square pyramid

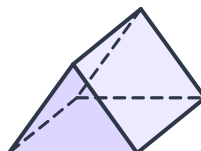
1.



2.



3.



4.

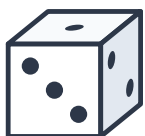


5.



What solid figure does each object look like?

6.



a number cube

7.



a cereal box

8.



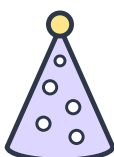
a tent

9.



a can

10.



a party hat

11.

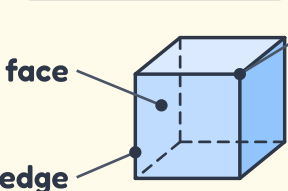


a globe

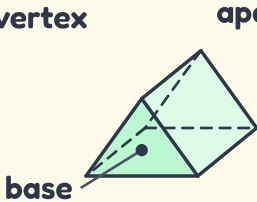
Solid Figures

Count the faces, edges and vertices. Then sort the solids.

Words to know



vertex



apex

base



face: a flat surface

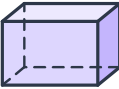
edge: where two faces meet

vertex: a corner where edges meet

base: prisms have 2, pyramids 1

apex: the top vertex of a pyramid

Count. Then name the shapes of the faces.

Solid figure	Faces	Edges	Vertices	Shapes of the faces
 cube Example	6	12	8	6 squares
 rectangular prism	_____	_____	_____	_____
 triangular prism	_____	_____	_____	_____
 square pyramid	_____	_____	_____	_____
 triangular pyramid	_____	_____	_____	_____
 sphere	_____	_____	_____	_____

Sort the solids. Write each letter in its group.

A

B

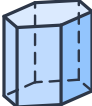
C

D

E

F

G

H

I

Prisms: 2 bases that match	Pyramids: 1 base and an apex	A curved surface

ANIMAL MATH

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(2)

Solid Figures

Compare flat shapes and solid figures.

Compare each flat shape with a solid figure.

Example

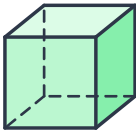


square

sides 4

angles 4

vertices 4



cube

faces 6

edges 12

vertices 8

Each face of a cube is a square

1.

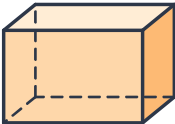


rectangle

sides

angles

vertices



rectangular prism

faces

edges

vertices

Each face of this prism is a

2.

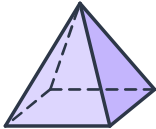


triangle

sides

angles

vertices



square pyramid

faces

edges

vertices

A square pyramid has faces that are triangles.

Is it true for one solid or both? Check the box.

Prism or pyramid?	 prism	 pyramid	Both
has 5 faces			
has 9 edges			
has 5 vertices			
has triangle faces			
has an apex			

Cylinder or cone?	 cylinder	 cone	Both
has a curved surface			
has 2 flat faces			
has an apex			
has a circle base			
has just 1 flat face			

How are a cube and a rectangular prism alike? How are they different?

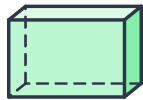
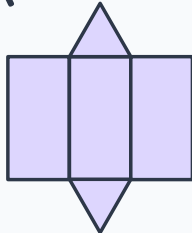
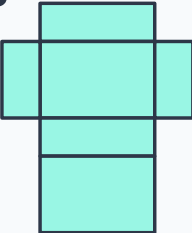
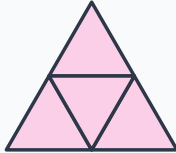
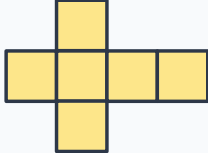
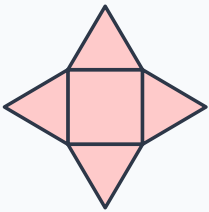
Alike: _____

Different: _____

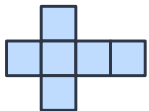
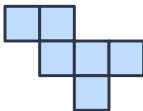
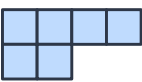
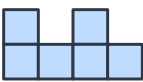
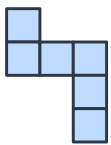
Solid Figures

Nets are flat patterns that fold into solid figures.

Write the letter of the net that folds into each solid. One net is left over.

Example  Net <u> B </u>	1.  Net <u> </u>	2.  Net <u> </u>	3.  Net <u> </u>	
A 	B 	C 	D 	E 

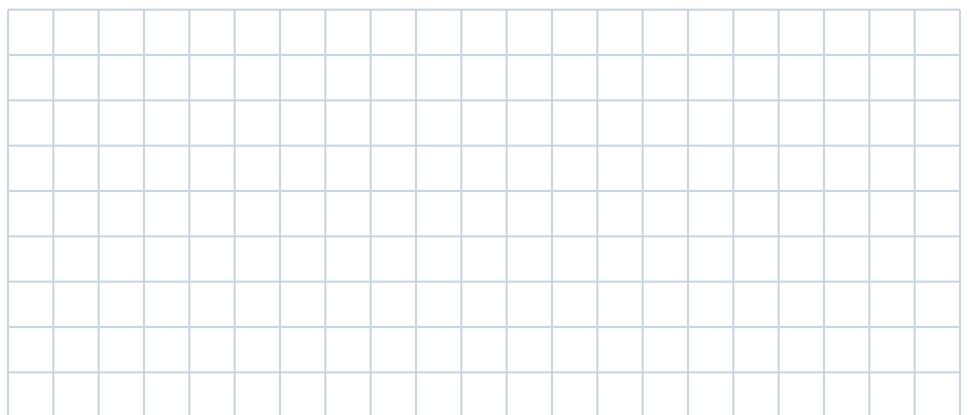
Will it fold into a cube? Circle yes or no.

4.  yes no	5.  yes no	6.  yes no	7.  yes no	8.  yes no	9.  yes no
--	--	--	---	--	--

Draw a net for this rectangular prism on the grid.



1 square = 1 unit



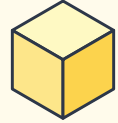
Solid Figures

Count the unit cubes layer by layer.

Unit cubes

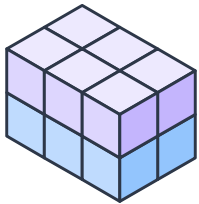
A unit cube has edges 1 unit long. It is 1 cubic unit.

Count the cubes in one layer, then count the layers.



How many unit cubes make each box shape?

Example

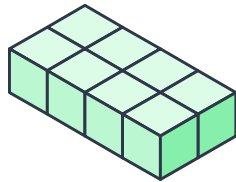


1 layer: 6

Layers: 2

In all: 12

1.

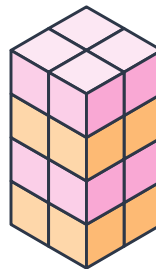


1 layer: _____

Layers: _____

In all: _____

2.

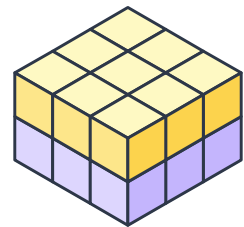


1 layer: _____

Layers: _____

In all: _____

3.



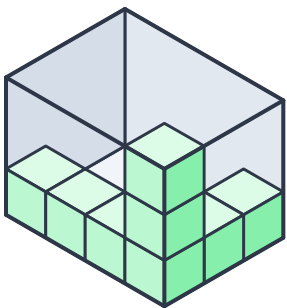
1 layer: _____

Layers: _____

In all: _____

How many cubes fill each box? How many more are needed?

4.



Bottom layer: _____

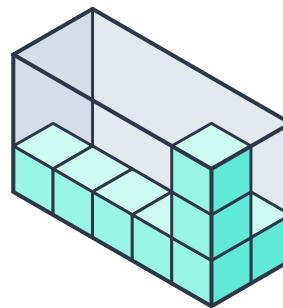
Layers: _____

Box holds: _____

More needed: _____

8 cubes are in the box now.

5.



Bottom layer: _____

Layers: _____

Box holds: _____

More needed: _____

8 cubes are in the box now.

Build it: make two different box shapes with 12 unit cubes each.

Box 1: _____ by _____ by _____

Box 2: _____ by _____ by _____

Write the length, width and height of each box.

Solid Figures

Write the name of each solid figure. Use the word bank.

Word bank:

cube

rectangular prism

triangular prism

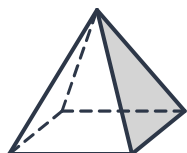
square pyramid

cylinder

cone

sphere

Name each solid figure.



Example

square pyramid

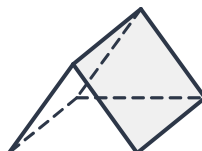
1.



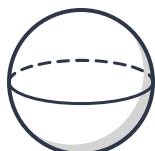
2.



3.



4.

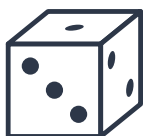


5.



What solid figure does each object look like?

6.



a number cube

7.



a cereal box

8.



a tent

9.



a can

10.



a party hat

11.

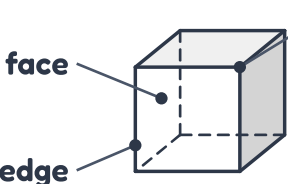


a globe

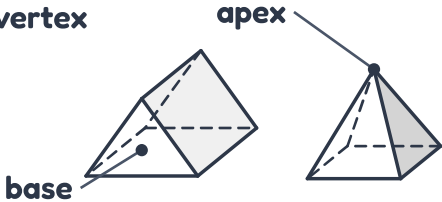
Solid Figures

Count the faces, edges and vertices. Then sort the solids.

Words to know



vertex



apex

base

face: a flat surface

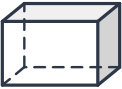
edge: where two faces meet

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Count. Then name the shapes of the faces.

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 triangular pyramid	_____	_____	_____	_____
 sphere	_____	_____	_____	_____

Sort the solids. Write each letter in its group.

A

B

C

D

E

F

G

H

I

Prisms: 2 bases that match	Pyramids: 1 base and an apex	A curved surface

ANIMAL MATH

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(2)

Solid Figures

Compare flat shapes and solid figures.

Compare each flat shape with a solid figure.

Example

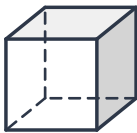


square

sides 4

angles 4

vertices 4



cube

faces 6

edges 12

vertices 8

Each face of a cube is a square

1.

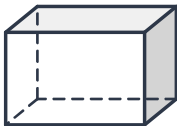


rectangle

sides _____

angles _____

vertices _____



rectangular prism

faces _____

edges _____

vertices _____

Each face of this prism is a _____

2.



triangle

sides _____

angles _____

vertices _____



square pyramid

faces _____

edges _____

vertices _____

A square pyramid has _____ faces that are triangles.

Is it true for one solid or both? Check the box.

Prism or pyramid?	 prism	 pyramid	Both
has 5 faces			
has 9 edges			
has 5 vertices			
has triangle faces			
has an apex			

Cylinder or cone?	 cylinder	 cone	Both
has a curved surface			
has 2 flat faces			
has an apex			
has a circle base			
has just 1 flat face			

How are a cube and a rectangular prism alike? How are they different?

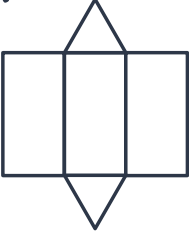
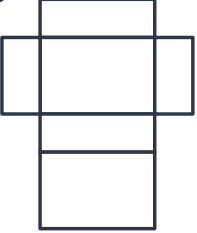
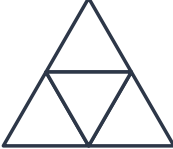
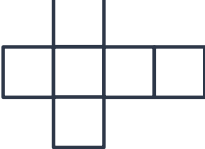
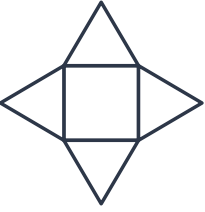
Alike: _____

Different: _____

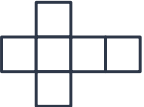
Solid Figures

Nets are flat patterns that fold into solid figures.

Write the letter of the net that folds into each solid. One net is left over.

Example  Net <u> B </u>	1.  Net <u> </u>	2.  Net <u> </u>	3.  Net <u> </u>	
A 	B 	C 	D 	E 

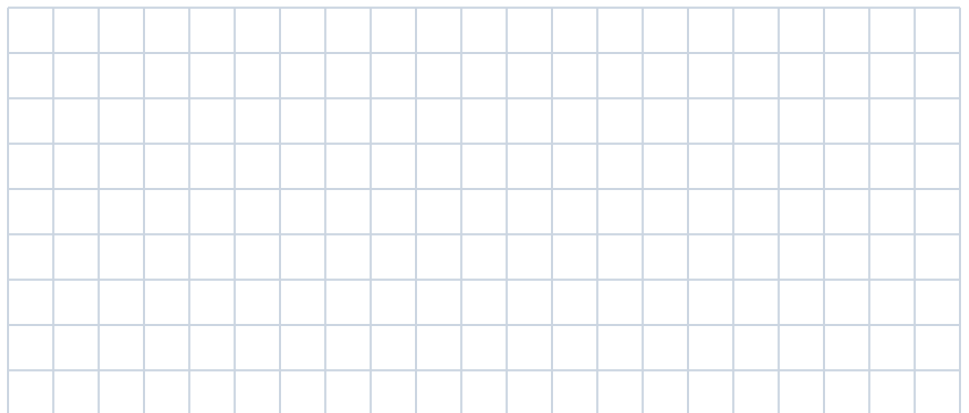
Will it fold into a cube? Circle yes or no.

4.  yes no	5.  yes no	6.  yes no	7.  yes no	8.  yes no	9.  yes no
--	--	--	---	--	--

Draw a net for this rectangular prism on the grid.



1 square = 1 unit



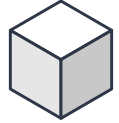
Solid Figures

Count the unit cubes layer by layer.

Unit cubes

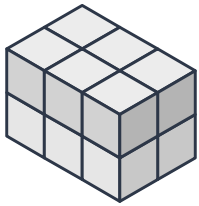
A unit cube has edges 1 unit long. It is 1 cubic unit.

Count the cubes in one layer, then count the layers.



How many unit cubes make each box shape?

Example

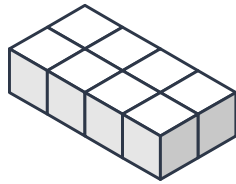


1 layer: 6

Layers: 2

In all: 12

1.

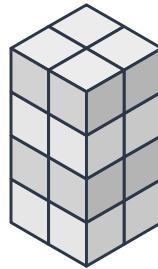


1 layer: _____

Layers: _____

In all: _____

2.

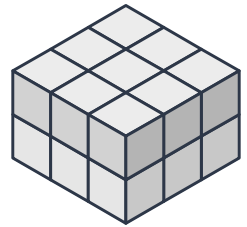


1 layer: _____

Layers: _____

In all: _____

3.



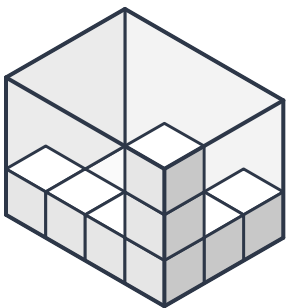
1 layer: _____

Layers: _____

In all: _____

How many cubes fill each box? How many more are needed?

4.



Bottom layer: _____

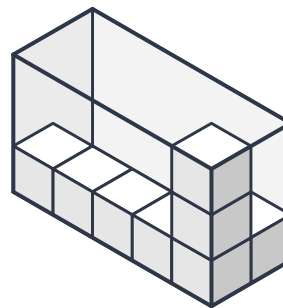
Layers: _____

Box holds: _____

More needed: _____

8 cubes are in the box now.

5.



Bottom layer: _____

Layers: _____

Box holds: _____

More needed: _____

8 cubes are in the box now.

Build it: make two different box shapes with 12 unit cubes each.

Box 1: _____ by _____ by _____

Box 2: _____ by _____ by _____

Write the length, width and height of each box.

Solid Figures

Write the name of each solid figure. Use the word bank.

Word bank:

cube

rectangular prism

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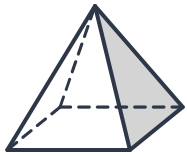
square pyramid

cylinder

cone

sphere

Name each solid figure.



Example

square pyramid

1.



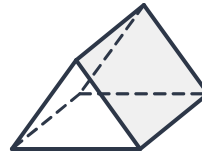
rectangular prism

2.



cylinder

3.



triangular prism

4.



sphere

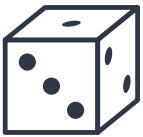
5.



cone

What solid figure does each object look like?

6.



a number cube

cube

7.



a cereal box

rectangular prism

8.



a tent

triangular prism

9.



a can

cylinder

10.



a party hat

cone

11.



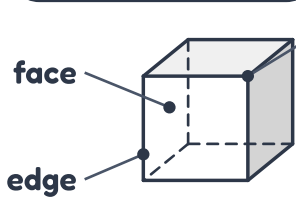
a globe

sphere

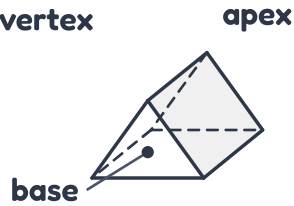
Solid Figures

Count the faces, edges and vertices. Then sort the solids.

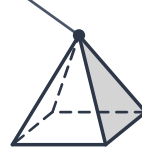
Words to know



vertex



apex



face: a flat surface

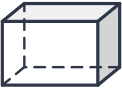
edge: where two faces meet

vertex: a corner where edges meet

base: prisms have 2, pyramids 1

apex: the top vertex of a pyramid

Count. Then name the shapes of the faces.

Solid figure	Faces	Edges	Vertices	Shapes of the faces
 cube Example	<u>6</u>	<u>12</u>	<u>8</u>	<u>6 squares</u>
 rectangular prism	<u>6</u>	<u>12</u>	<u>8</u>	<u>6 rectangles</u>
 triangular prism	<u>5</u>	<u>9</u>	<u>6</u>	<u>3 rectangles, 2 triangles</u>
 square pyramid	<u>5</u>	<u>8</u>	<u>5</u>	<u>4 triangles, 1 square</u>
 triangular pyramid	<u>4</u>	<u>6</u>	<u>4</u>	<u>4 triangles</u>
 sphere	<u>0</u>	<u>0</u>	<u>0</u>	<u>no flat faces; it is curved</u>

Sort the solids. Write each letter in its group.



A



B



C



D



E



F



G



H



I

Prisms: 2 bases that match	Pyramids: 1 base and an apex	A curved surface
<u>A, E, H</u>	<u>B, F, I</u>	<u>C, D, G</u>

Solid Figures

Compare flat shapes and solid figures.

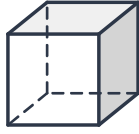
Compare each flat shape with a solid figure.

Example



square

sides 4
angles 4
vertices 4



cube

faces 6
edges 12
vertices 8

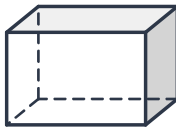
Each face of a cube is a square

1.



rectangle

sides 4
angles 4
vertices 4



rectangular prism

faces 6
edges 12
vertices 8

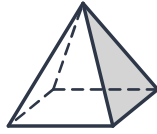
Each face of this prism is a rectangle

2.



triangle

sides 3
angles 3
vertices 3



square pyramid

faces 5
edges 8
vertices 5

A square pyramid has 4 faces that are triangles.

Is it true for one solid or both? Check the box.

Prism or pyramid?	 prism	 pyramid	Both
has 5 faces			✓
has 9 edges	✓		
has 5 vertices		✓	
has triangle faces			✓
has an apex		✓	

Cylinder or cone?	 cylinder	 cone	Both
has a curved surface			✓
has 2 flat faces	✓		
has an apex		✓	
has a circle base			✓
has just 1 flat face		✓	

How are a cube and a rectangular prism alike? How are they different?

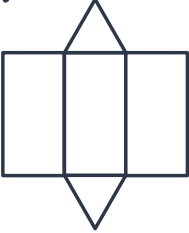
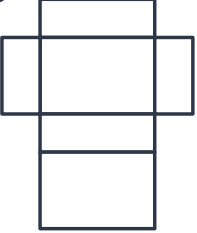
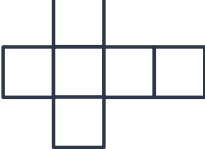
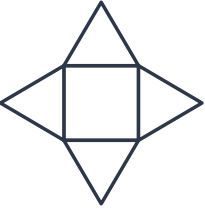
Alike: Sample: both have 6 faces, 12 edges and 8 vertices.

Different: Sample: a cube's faces are all squares; a prism can have faces that are not.

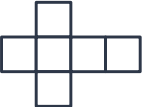
Solid Figures

Nets are flat patterns that fold into solid figures.

Write the letter of the net that folds into each solid. One net is left over.

Example  Net <u> B </u>	1.  Net <u> E </u>	2.  Net <u> A </u>	3.  Net <u> C </u>	
A 	B 	C 	D 	E 

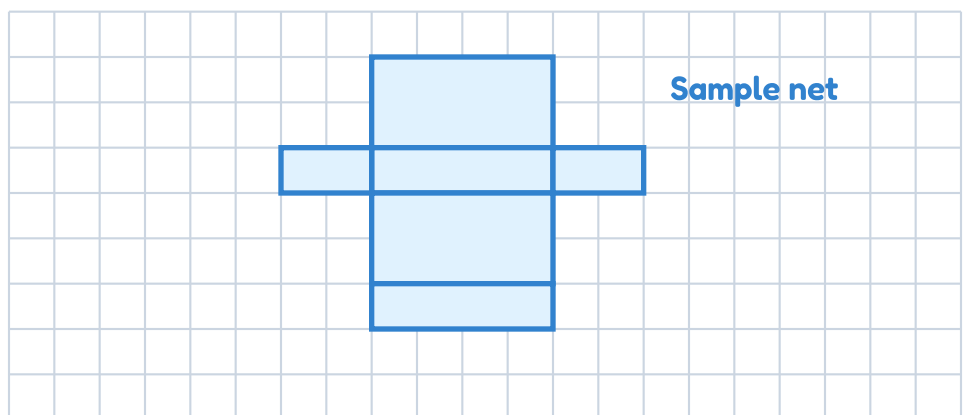
Will it fold into a cube? Circle yes or no.

4.  yes ☒ no	5.  yes ☒ no	6.  yes ☒ no	7.  yes ☒ no	8.  yes ☒ no	9.  yes ☒ no
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Draw a net for this rectangular prism on the grid.



1 square = 1 unit



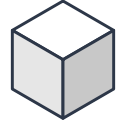
Solid Figures

Count the unit cubes layer by layer.

Unit cubes

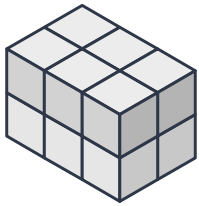
A unit cube has edges 1 unit long. It is 1 cubic unit.

Count the cubes in one layer, then count the layers.



How many unit cubes make each box shape?

Example

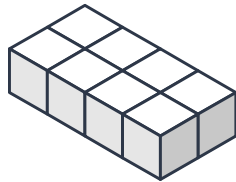


1 layer: 6

Layers: 2

In all: 12

1.

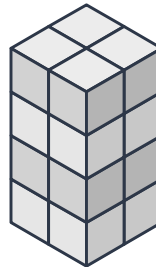


1 layer: 8

Layers: 1

In all: 8

2.

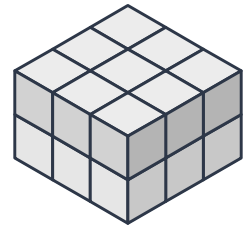


1 layer: 4

Layers: 4

In all: 16

3.



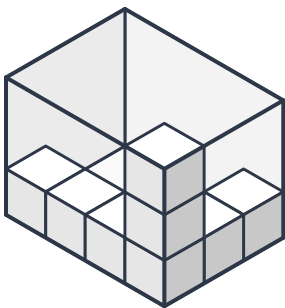
1 layer: 9

Layers: 2

In all: 18

How many cubes fill each box? How many more are needed?

4.



Bottom layer: 12

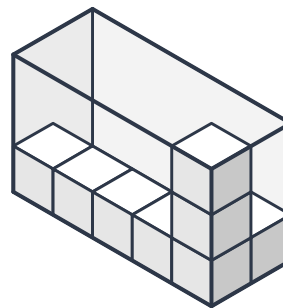
Layers: 3

Box holds: 36

More needed: 28

8 cubes are in the box now.

5.



Bottom layer: 10

Layers: 3

Box holds: 30

More needed: 22

8 cubes are in the box now.

Build it: make two different box shapes with 12 unit cubes each.

Box 1: 6 by 2 by 1

Box 2: 4 by 3 by 1

Sample answers. Any two of $1 \times 1 \times 12$, $1 \times 2 \times 6$, $1 \times 3 \times 4$, $2 \times 2 \times 3$ are right.