Warm-Up

1. $20 \div 4$

5

2. 7×30

210

3. 14.3×10

143

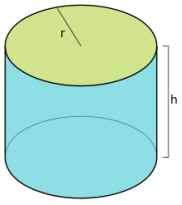
4. 3×12

36

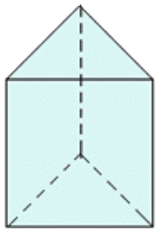
5. 45×2

$= 90$

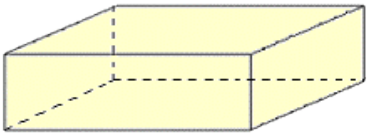
Unit 4



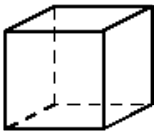
Measuring Prisms and Cylinders



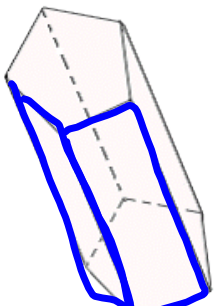
Triangular Prism



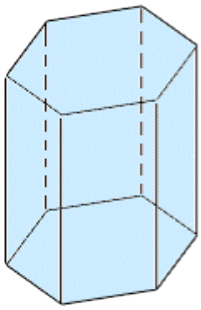
Rectangular Prism



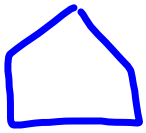
Cube



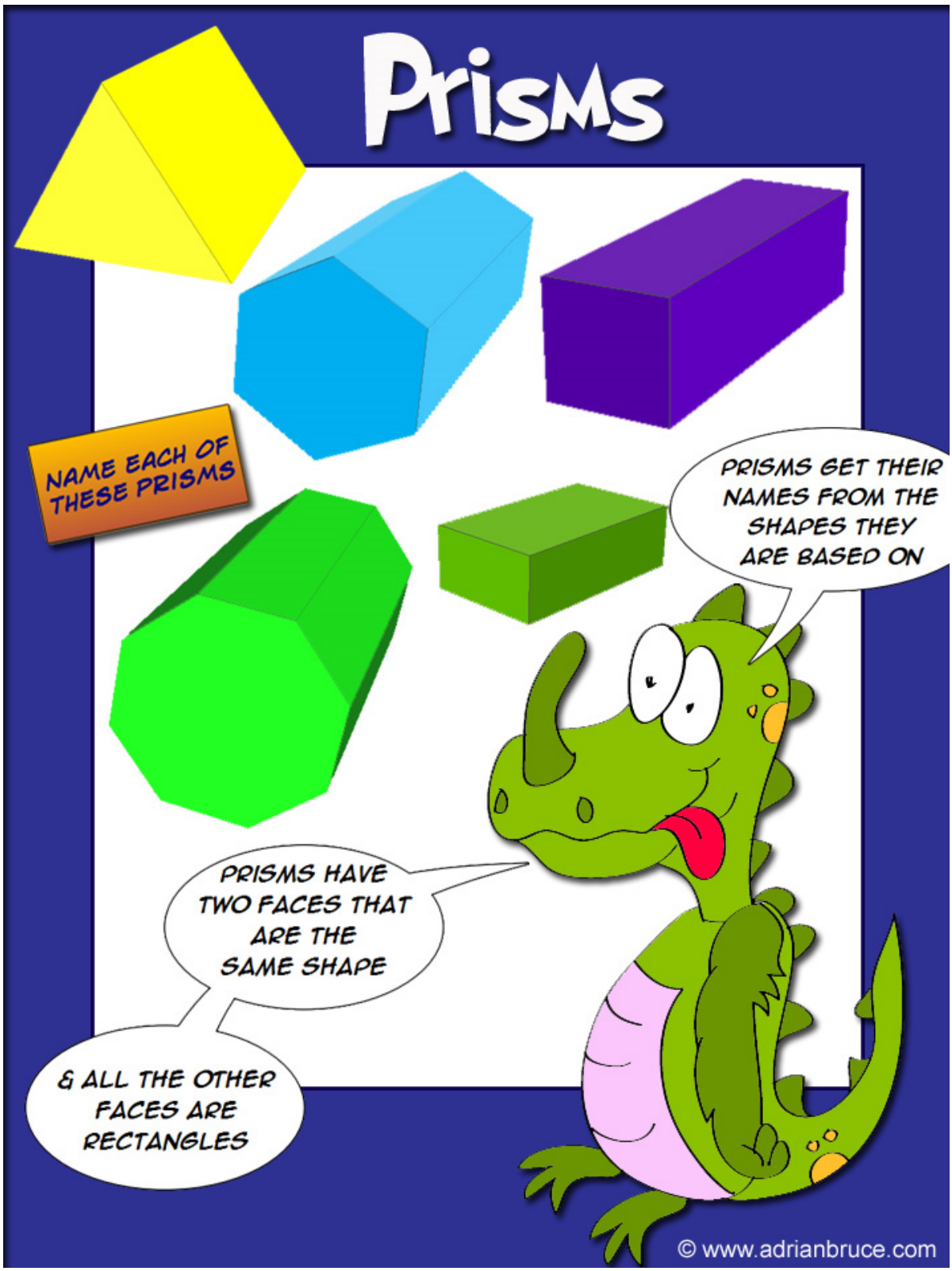
Pentagonal Prism



Hexagonal Prism



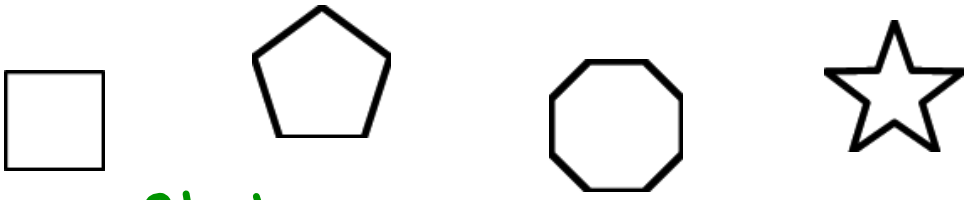
2 pentagons
5 rectangle


Prisms
NAME EACH OF THESE PRISMS
PRISMS GET THEIR NAMES FROM THE SHAPES THEY ARE BASED ON
PRISMS HAVE TWO FACES THAT ARE THE SAME SHAPE
& ALL THE OTHER FACES ARE RECTANGLES
© www.adrianbruce.com

Draw and Construct Nets for 3D Objects.

Study

Polygon - a closed shape that consists of line segments

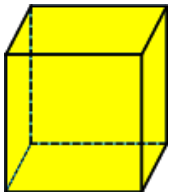


Study

A regular polygon has all sides equal and all angles equal.

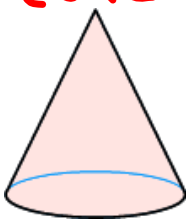
Polyhedron - an object with faces that are polygons

Cube



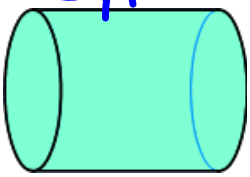
Face? Square

Cone

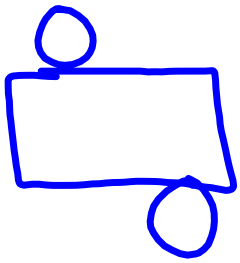


Face? Circle

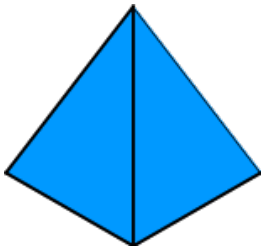
Cylinder



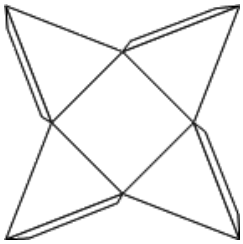
Face? Circle



Net - is a 2D representation of a 3D object that can be folded to recreate the shape.



pyramid

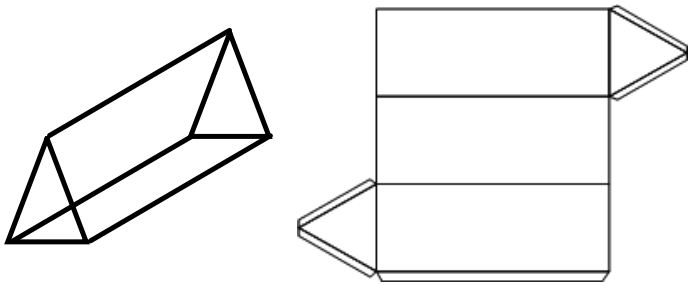


net of a pyramid

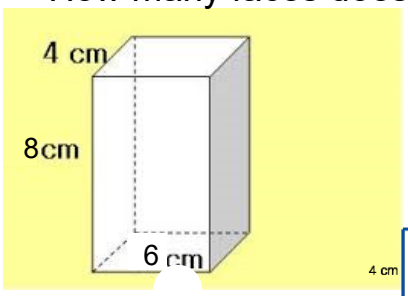
A net shows all of the faces of an object.

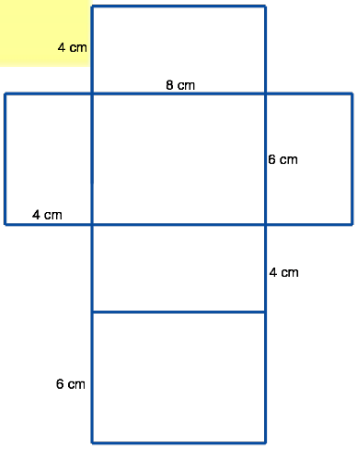
Two faces meet at an edge

Three or more edges meet at a vertex

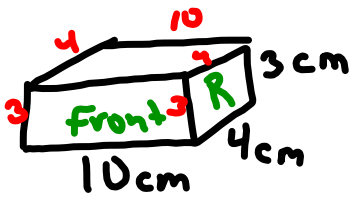


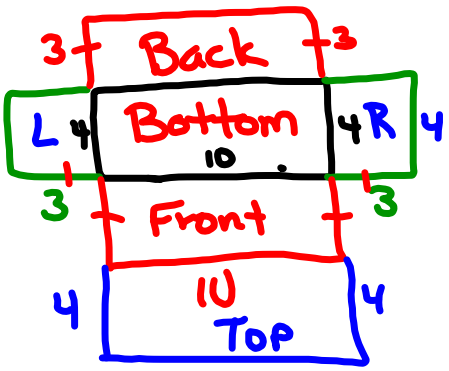
How many faces does the rectangular prism have? 6



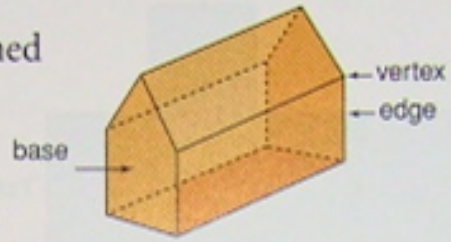


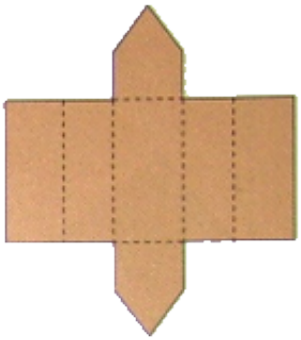
Tissue Box


4
10
3cm
3
Front
3
R
4cm
10cm


3
Back
3
L
4
Bottom
10
4
R
4
3
Front
3
4
10
Top
4

- A *prism* has 2 congruent bases and is named for its bases.
  When all its faces, other than the bases, are rectangles and they are perpendicular to the bases, the prism is called a **right prism**.
  Here is a right pentagonal prism and its net.

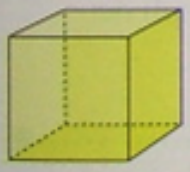




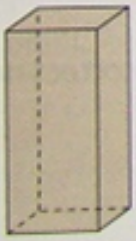
Remember

A regular polygon has all sides equal and all angles equal.

A **regular prism** has regular polygons as bases.

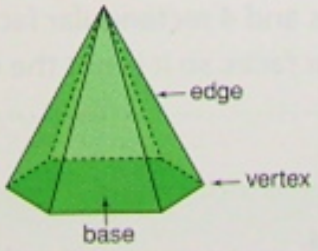


cube



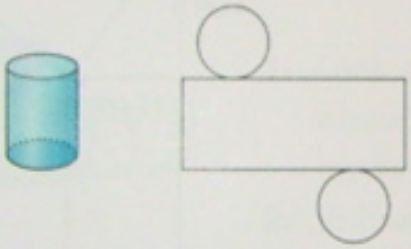
square prism

A **regular pyramid** has a regular polygon as its base. Its other faces are triangles.



regular hexagonal pyramid

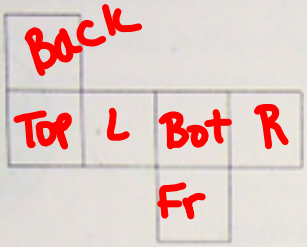
➤ Here is a right cylinder and its net.
The line joining the centres of the circular bases is perpendicular to the bases.



The two congruent circles are on opposite sides of the rectangle.

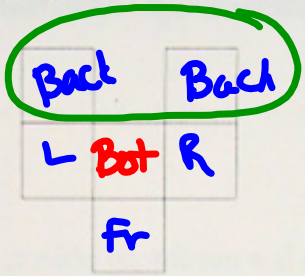
Which of the following diagrams is **not** the net of a cube?

A



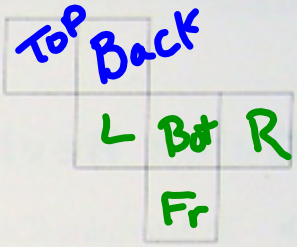
Makes a cube

B



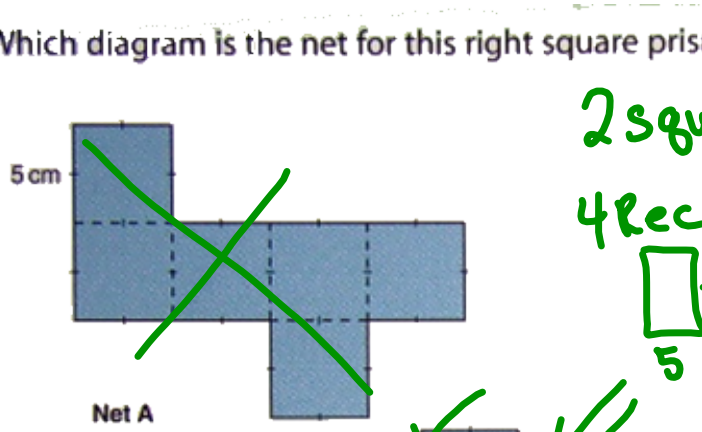
Not a net of cube

C



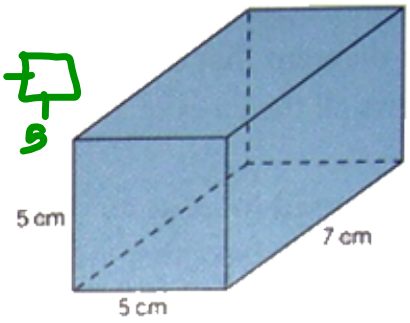
Cube

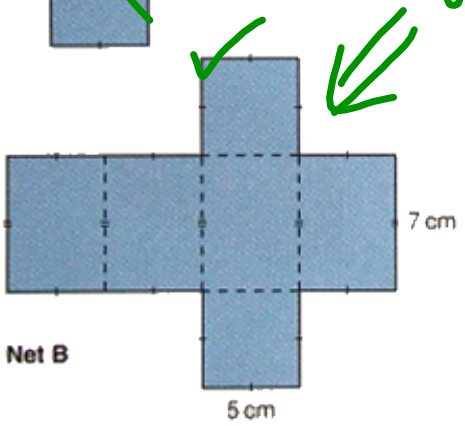
Which diagram is the net for this right square prism?

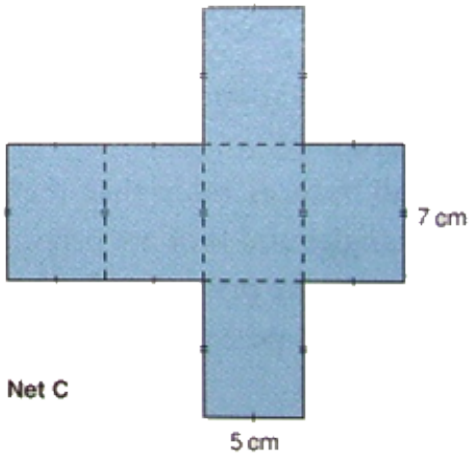


2 square

4 Rec

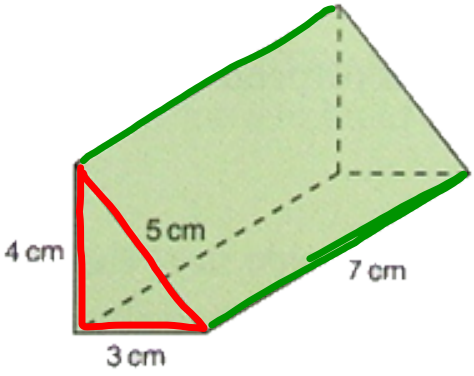


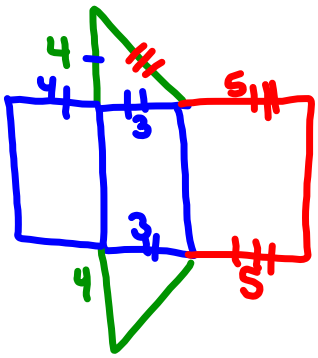


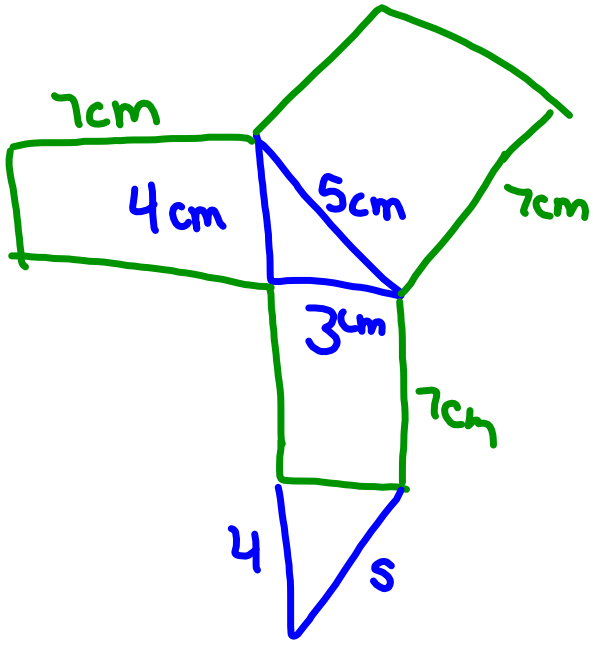


A Solution

Draw a net of this right triangular prism.







Hint: Start with the base face which is a _____

Class/Homework

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4, #5, #6