Warm-Up

Date: Oct. 18

1. $20 \div 4$

5

2. 7×30 = 210

7x3=21

3. 14.3×10

143

4. 3×12 = 36

5. 45×2 = 90

6. Explain how to find 80% of 70

Hint if 10% of 70 = 7

x8 x8

80% of 70 = 56

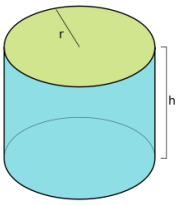
4.7 x 100

470

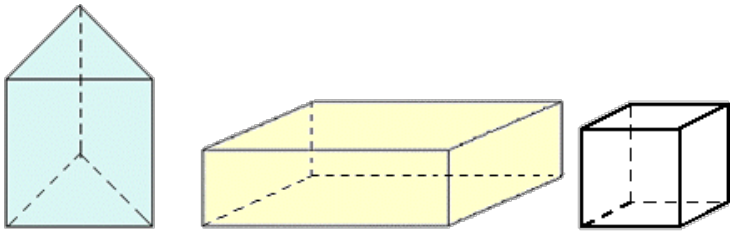
0.23 x 1000

230

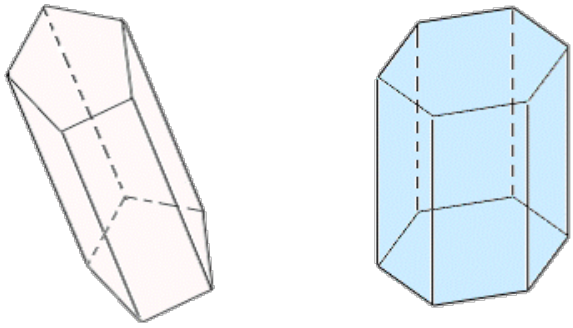
Unit 4



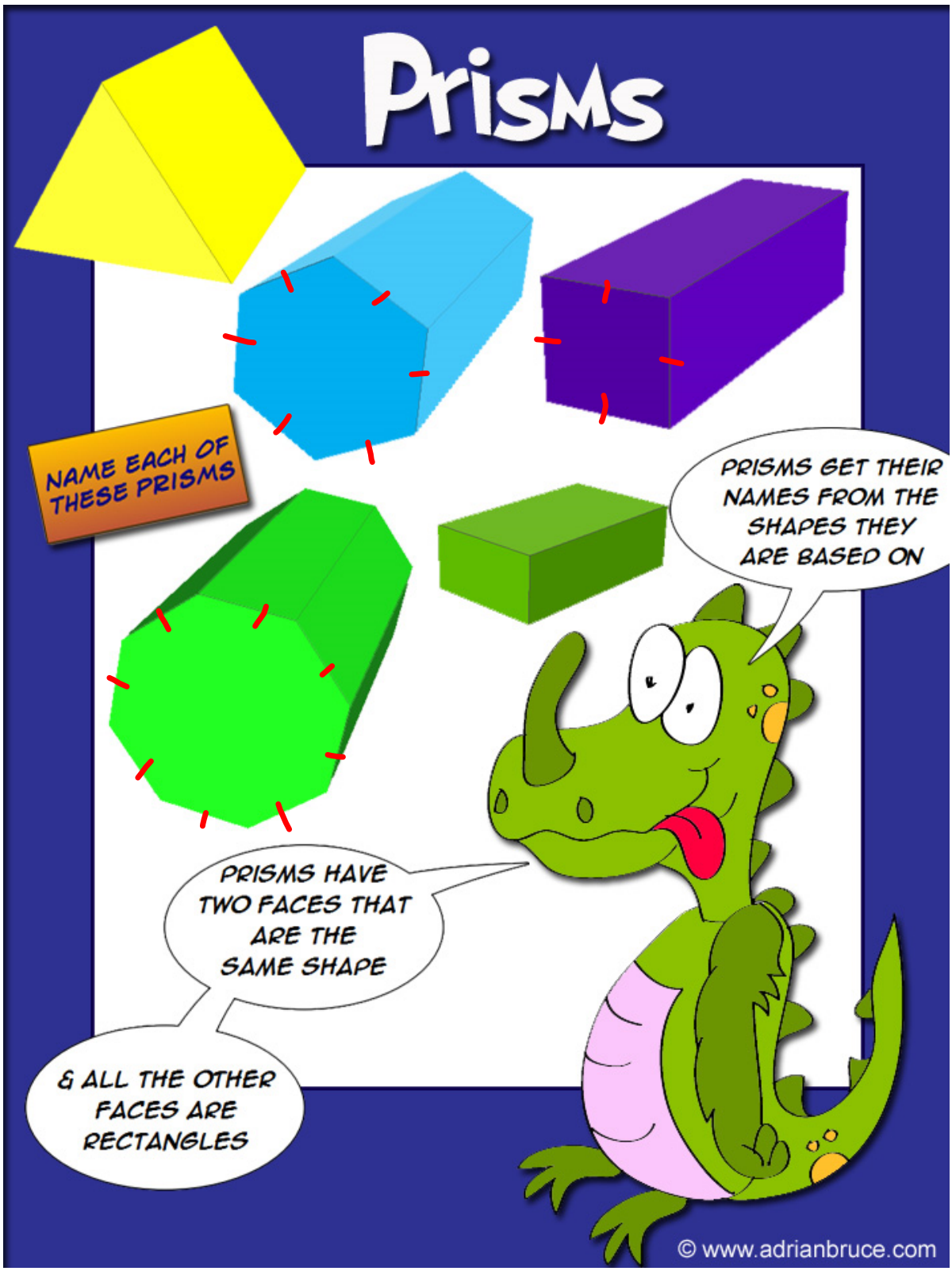
Measuring Prisms and Cylinders



Triangular Prism Rectangular Prism Cube



Pentagonal Prism Hexagonal Prism


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
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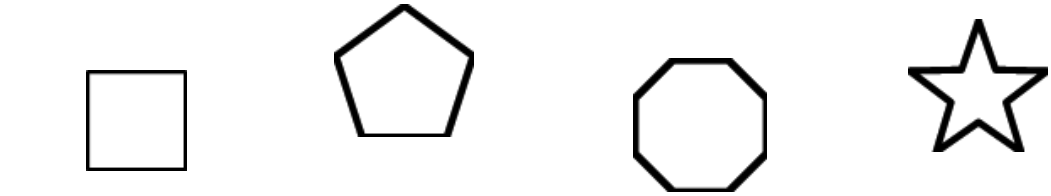
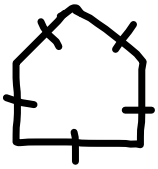
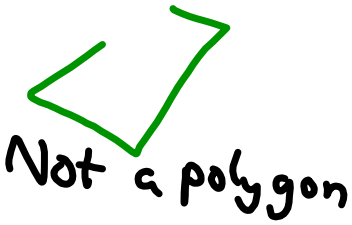
Draw and Construct Nets for 3D Objects.

Polygon - a closed shape that consists of line segments

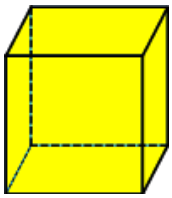




A regular polygon has all sides equal and all angles equal.

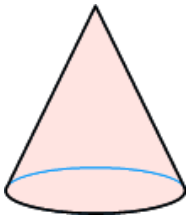


Polyhedron - an object with faces that are polygons



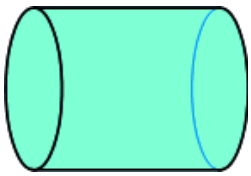
Face?

Cube
6 faces
All squares



Face?

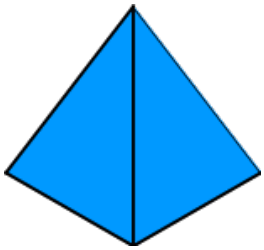
Circle



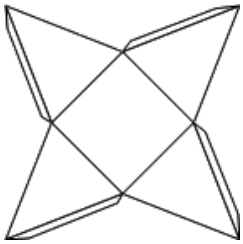
Face?

Cylinder
2 cirles
Rolled Rectangle

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



pyramid



net of a pyramid

← Square Pyramid

Pyramid → sides are triangles
→ 1 base shape
→ point

A net shows all of the faces of an object.

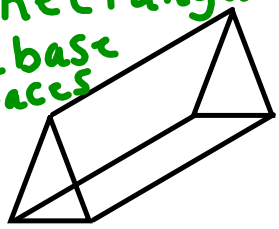
Two faces meet at an edge.

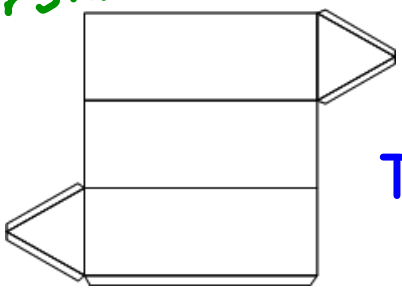
Three or more edges meet at a vertex.

(More Rec) prism ↓

3 Rectangles
2 triangles

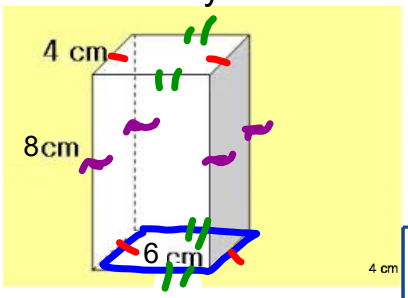
Prism
↳ Rectangular sides
↳ 2 base faces

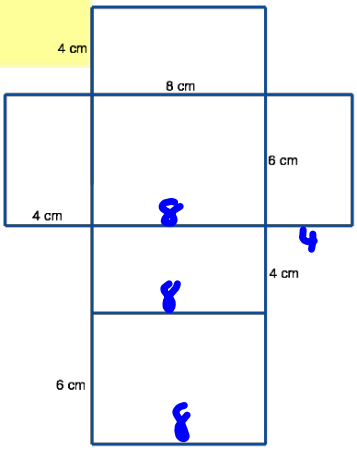


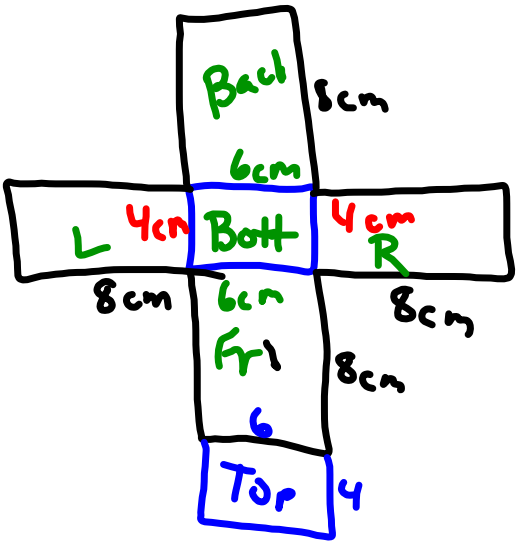


Triangular Prism

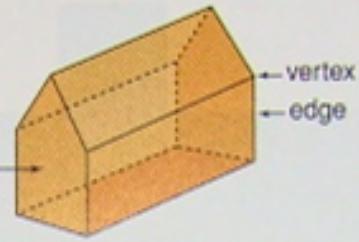
How many faces does the rectangular prism have? 6 faces

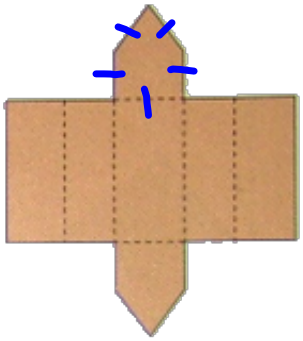






- A *prism* has 2 congruent bases and is named for its bases.
  When all its faces, other than the bases, are rectangles and they are perpendicular to the bases, the prism is called a **right prism**.
  Here is a right pentagonal prism and its net.





2 pentagons

5 rectangles

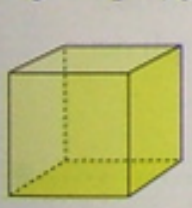
↓

Pentagonal Prism

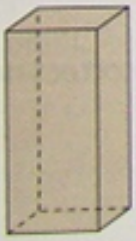
Remember

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

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



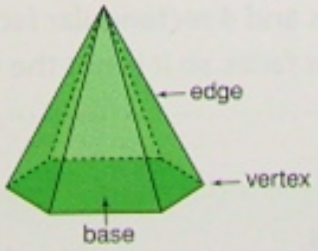
cube



square prism

2 squares
4 rectangles

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

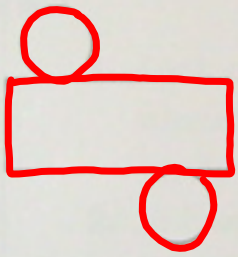


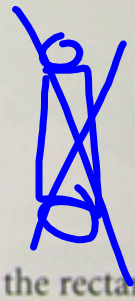
regular hexagonal pyramid

1 hexagon
6 triangles

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

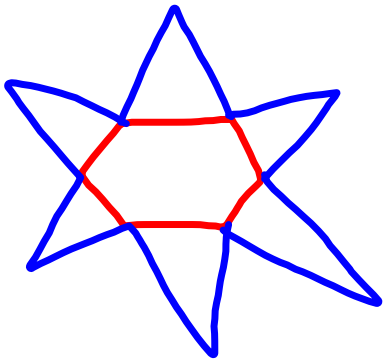
Study



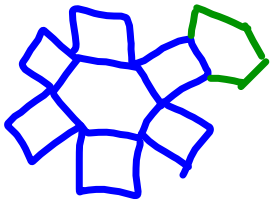


The two congruent circles are on opposite sides of the rectangle.

Net of hexagonal Pyramid

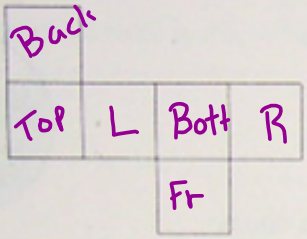


hexagonal Prism →

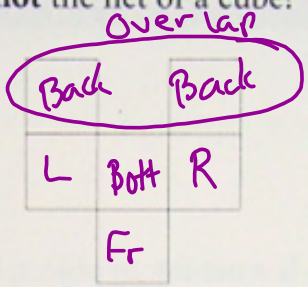


Which of the following diagrams is **not** the net of a cube?

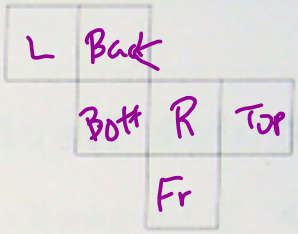
A



B



C

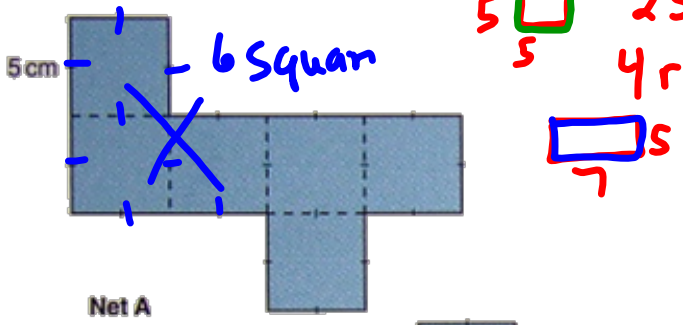


Cube ✓

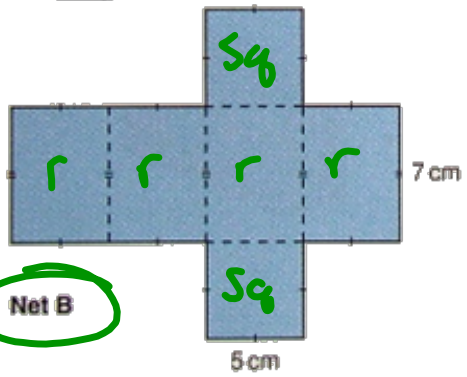
Not a Net X

Cube a Net

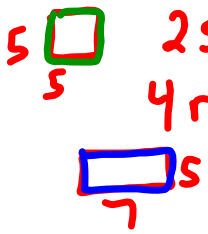
Which diagram is the net for this right square prism?

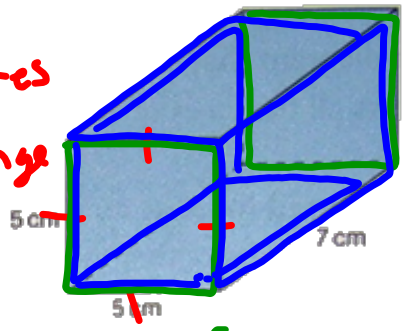


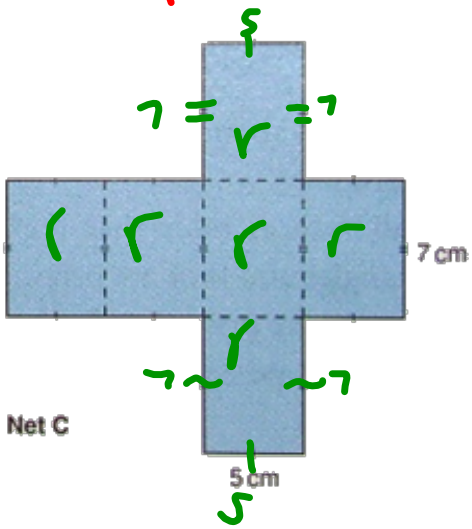
Net A



Net B



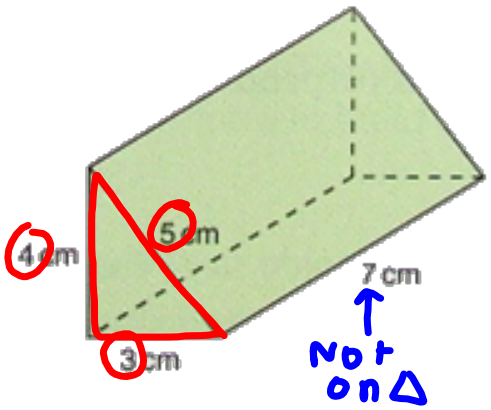




Net C

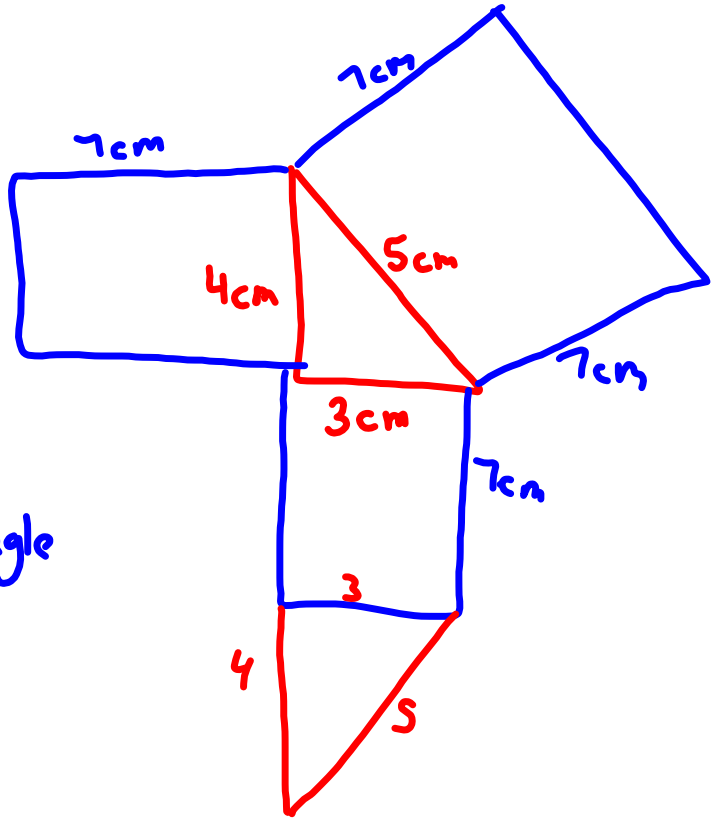
A Solution

Draw a net of this right triangular prism.



Not on △ so length of rectangle

2 △
3 ▭



Hint: Start with the base face which is a triangle

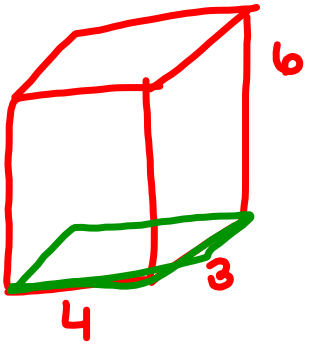
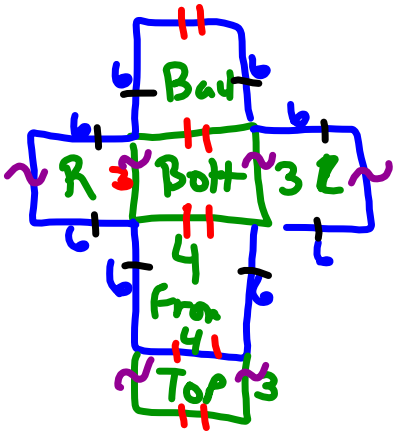
Class/Homework

Page 174

4, #5, #6

Put dimensions on

You can draw on grid paper



Bott/Top
L/R
Fr/Back