



Warm-Up
Jan. 7, 2014



1. $20 \div 4$

4. 3×12

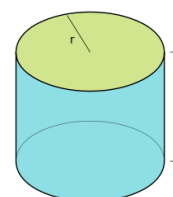
2. 7×30

5. 45×2

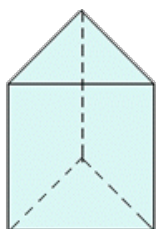
3. 14.3×10

6. Explain how to find 80% of 70

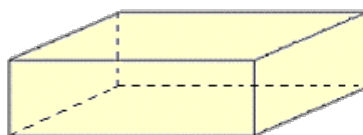
Unit 4



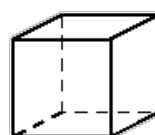
Measuring Prisms and Cylinders



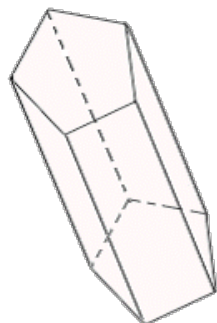
Triangular Prism



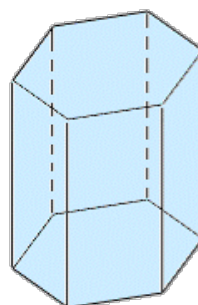
Rectangular Prism



Cube



Pentagonal Prism



Hexagonal Prism

Prisms

NAME EACH OF THESE PRISMS

① 3cm 4cm

②

PRISMS GET THEIR NAMES FROM THE SHAPES THEY ARE BASED ON

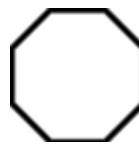
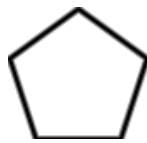
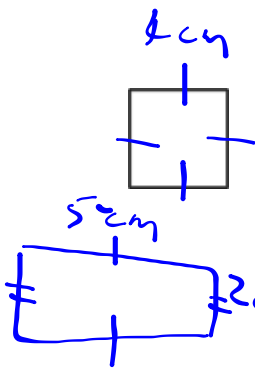
PRISMS HAVE TWO FACES THAT ARE THE SAME SHAPE

& ALL THE OTHER FACES ARE RECTANGLES

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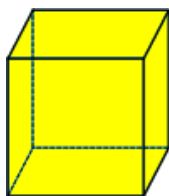
Draw and Construct Nets for 3D Objects.

Polygon - a closed shape that consists of line segments

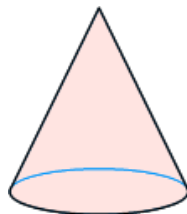
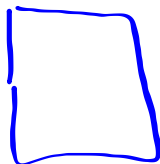


A regular polygon has all sides equal and all angles equal.

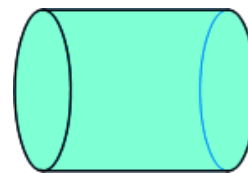
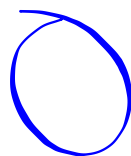
Polyhedron - an object with faces that are polygons



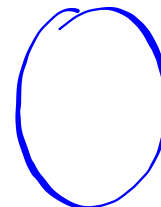
Face?



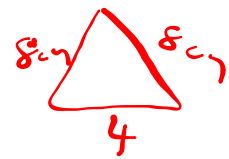
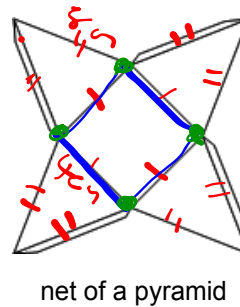
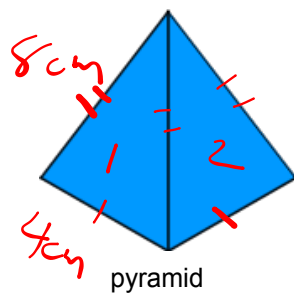
Face?



Face?



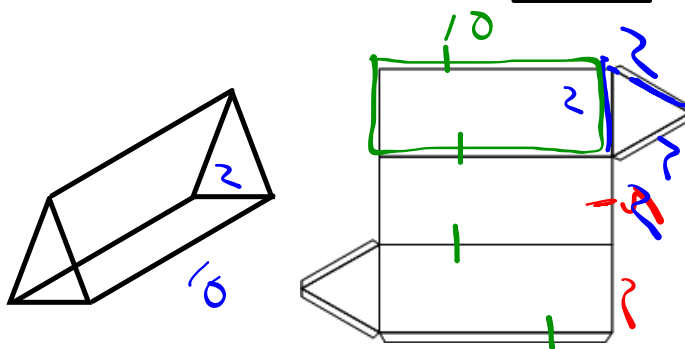
Net - is a 2D representation of a 3D object that can be folded to recreate the shape.



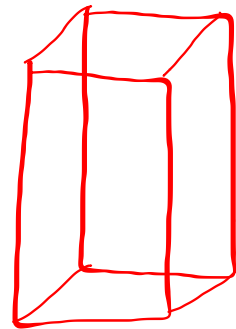
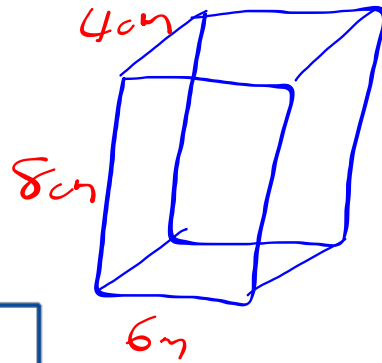
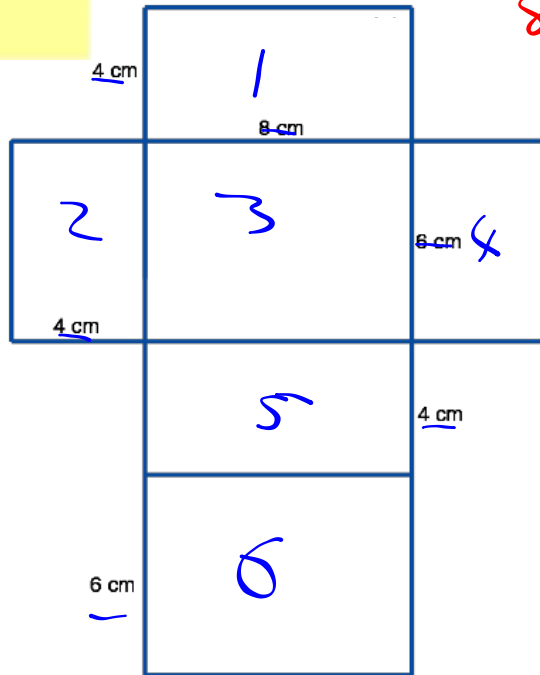
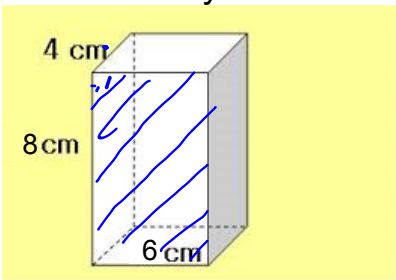
A net shows all of the faces of an object.

Two faces meet at an edge.

Three or more edges meet at a vertex.



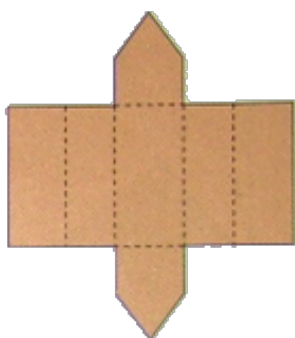
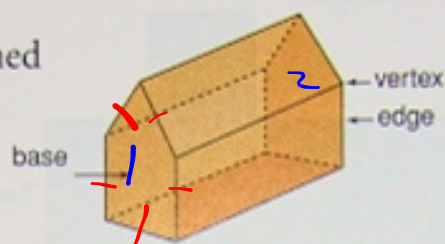
How many faces does the rectangular prism have? _____



- A *prism* has 2 congruent bases and is named for its bases. *↳ the same*

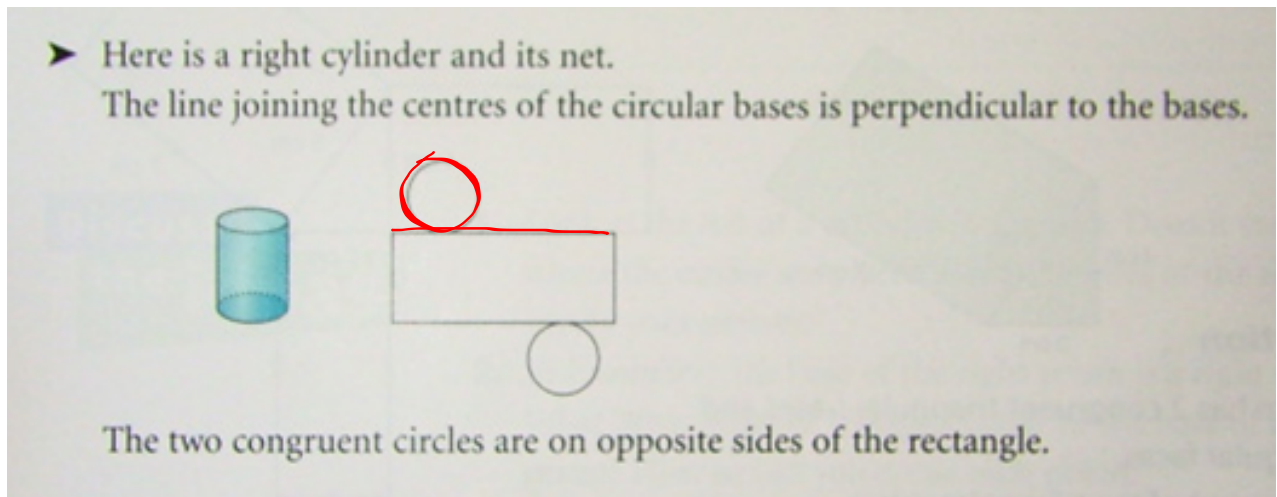
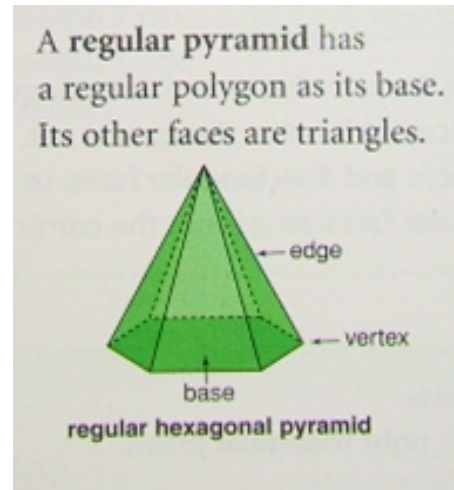
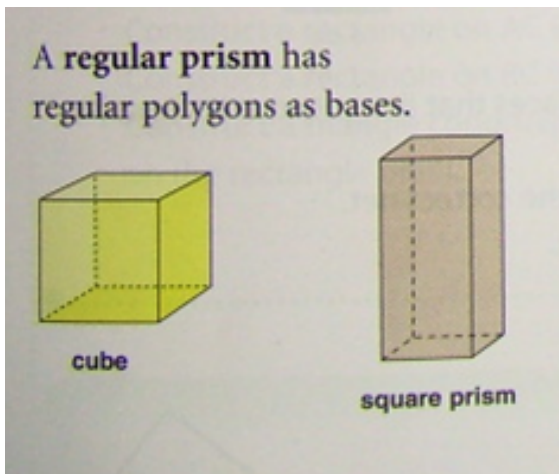
When all its faces, other than the bases, are rectangles and they are perpendicular to the bases, the prism is called a **right prism**.

Here is a right pentagonal prism and its net.



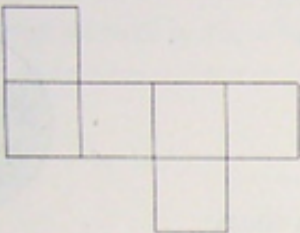
Remember

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



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

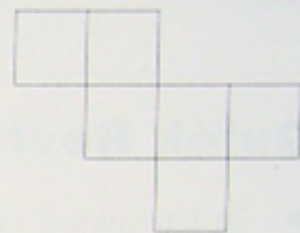
A



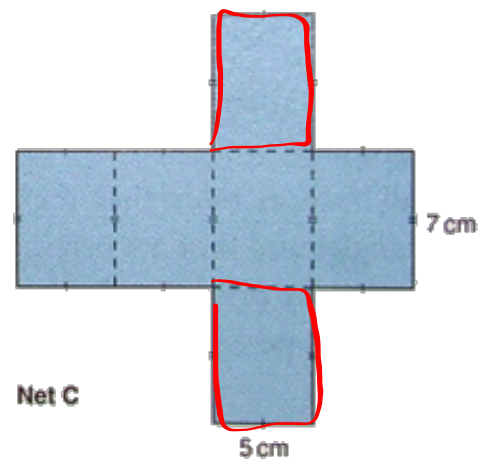
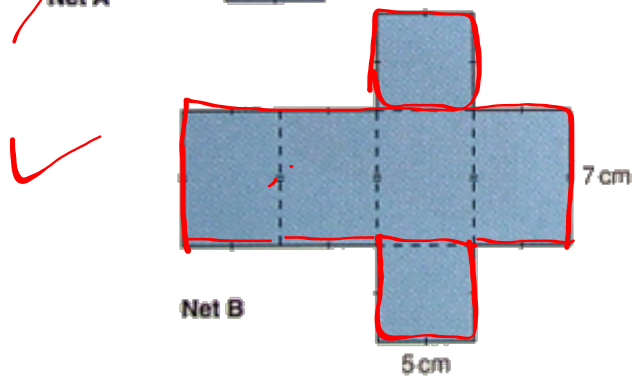
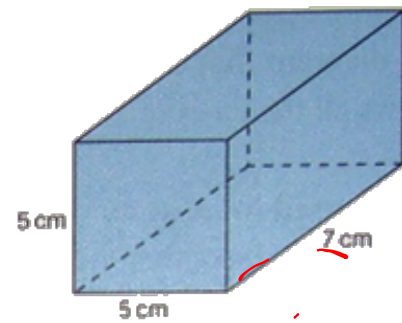
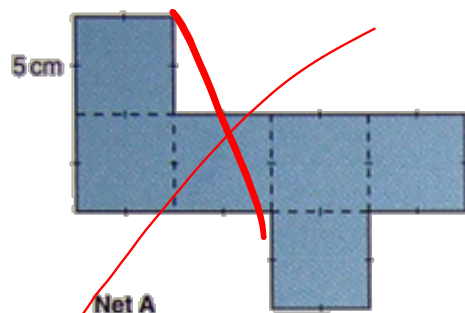
B



C



Which diagram is the net for this right square prism?



A Solution

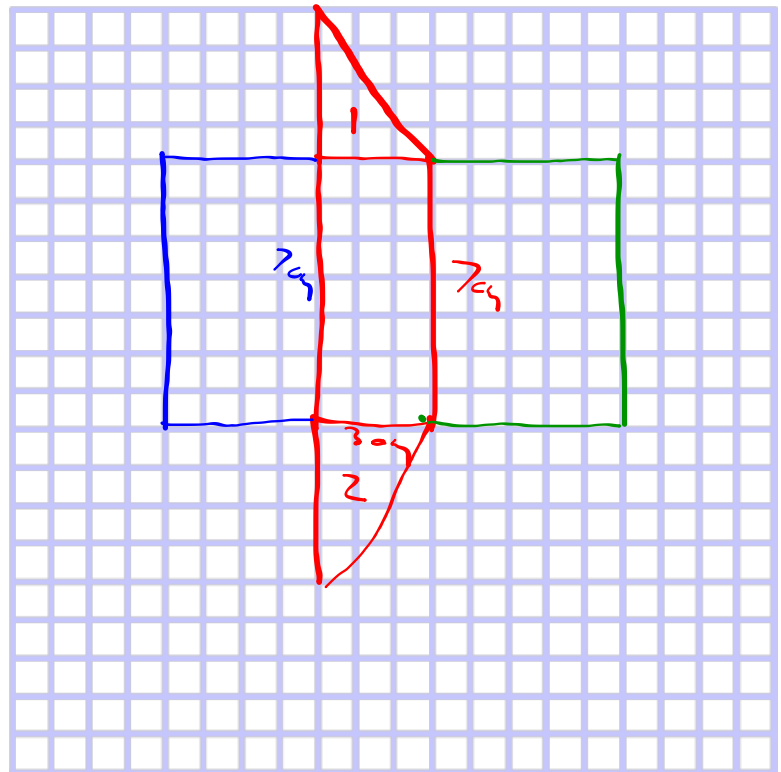
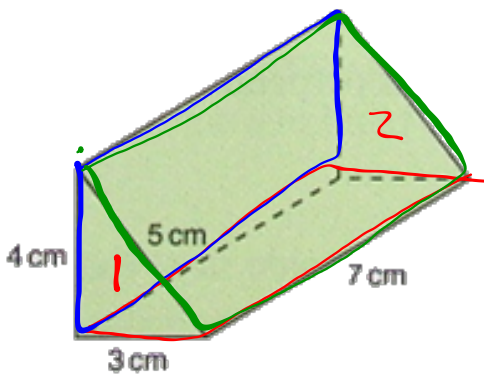
The square prism has 2 square bases (5 cm x 5 cm) and 4 RECTANGULAR faces (5 cm x 7 cm)

Net A has 6 square faces, so it is NOT the correct net

Net B has 2 square faces, and 4 rectangular faces the correct net

Net C has 6 rectangular faces, so it is NOT the correct net

Draw a net of this right triangular prism.



Hint: Start with the base face which is a _____

Class/Homework

Page 174

4, #5, #6

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