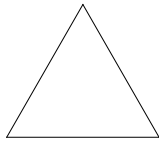


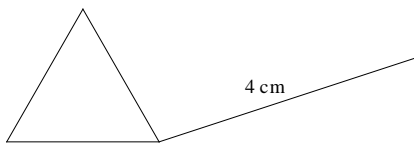
PRISMS

Prisms are three dimensional solids with two ends identical in shape and size, joined by parallel edges. The following method may be used to draw prisms using Geo-Pro.

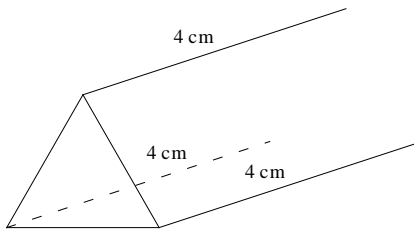
- (i) Select a shape for the prism's ends. Here an equilateral triangle is used.



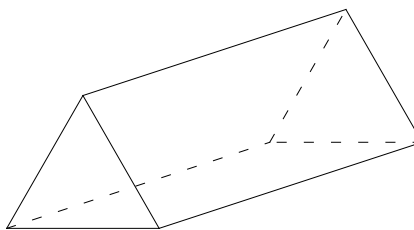
- (ii) Use one of Geo-Pro's rulers to measure a convenient distance (e.g. 4 cm) from one of the corners and rule an edge of the prism at an appropriate angle.



- (iii) Using Geo-Pro's grid lines as a guide, construct the remaining parallel sides equal in length to the first drawn edge (use dotted lines for hidden edges).



- (iv) Use the same shape used for the first end to draw in the other end (again - use dotted lines for hidden edges).



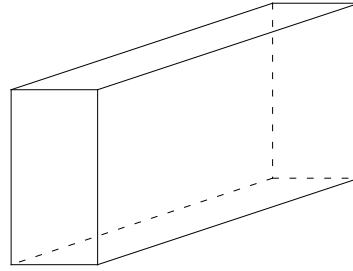
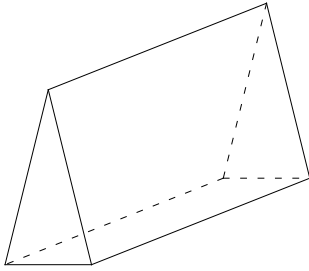
The completed prism.

1. Prisms are named after the shape at each end. Draw several different triangular and rectangular prisms.
2. Draw three different prisms with regular polygons at each end.
3. Draw a circular prism. What is the common name for this type of prism?

Answers
PRISMS

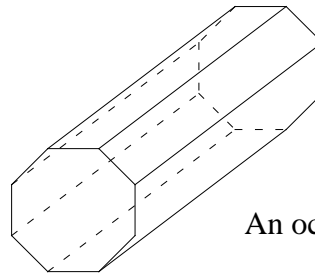
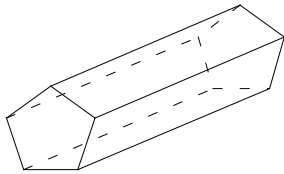
Answers may vary. Some examples appear below.

1.



2.

A pentagonal prism.



An octagonal prism.

3. A circular prism is called a cylinder. A Geo-Pro ellipse may be used to draw a more realistic representation of a cylinder (see right-hand diagram below).

