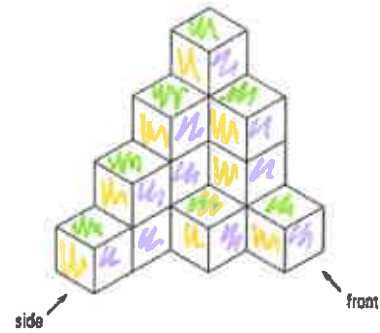


Apprenticeship Math 12
TEST PREP: Technical Drawings

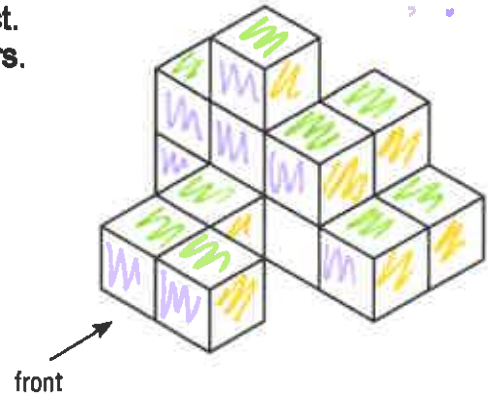
Name: Key
 Date: _____

1. Draw top, front and side views of the given object.
 Assume there are no blocks hidden behind others.



Top View	Front View	Side View

2. Draw top, front and side views of the given object.
 Assume there are no blocks hidden behind others.

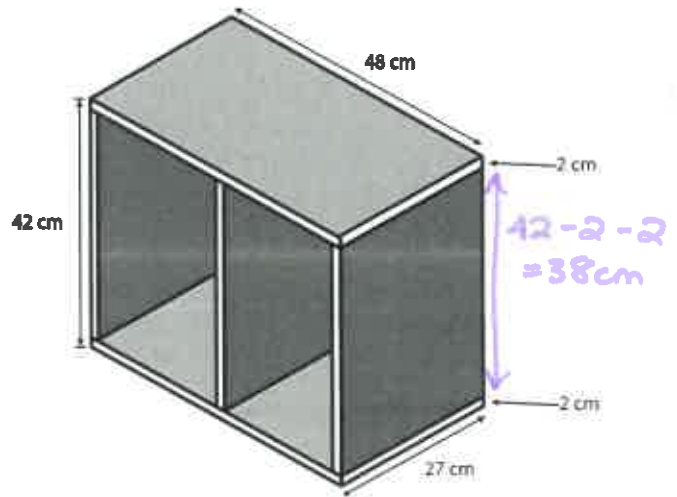


Top View	Front View	Side View

13. Jakob wants to build a stand for storing his work boots. Draw and label a component parts diagram the stand at a scale of 1:6.

All of the material is 2 cm thick (hint: this information is needed to calculate the height of some pieces!). The stand is open on the back side.

Show how you calculated your measurements, label the dimensions, and include a scale statement on your diagram.



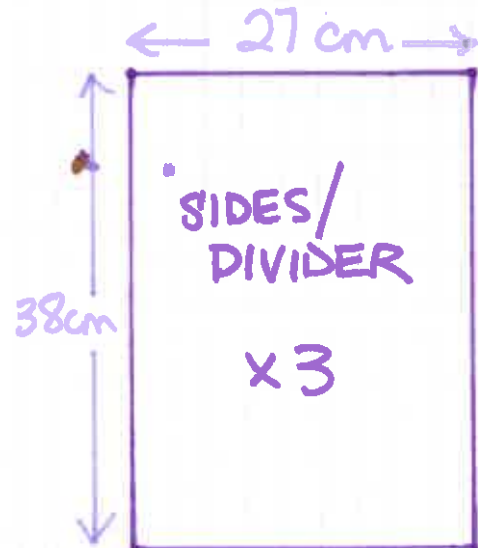
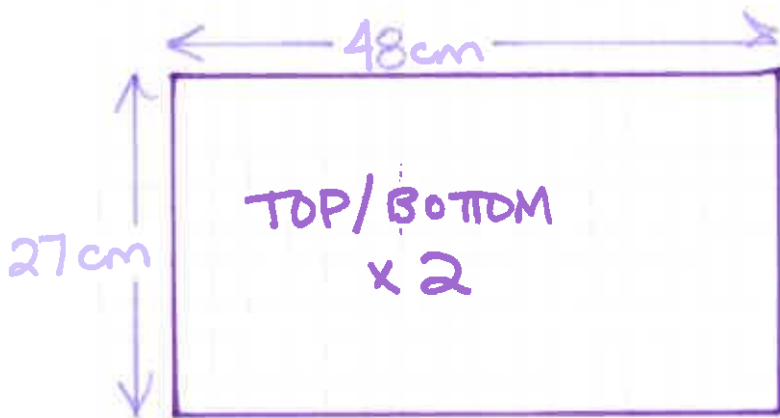
$$48\text{cm} \times \frac{1}{6} = 8\text{cm}$$

$$38\text{cm} \times \frac{1}{6} = 6.3\text{cm}$$

$$27\text{cm} \times \frac{1}{6} = 4.5\text{cm}$$

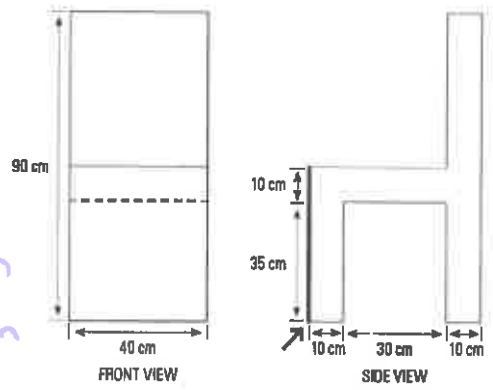
COMPONENT PARTS - BOOT STAND

1:6

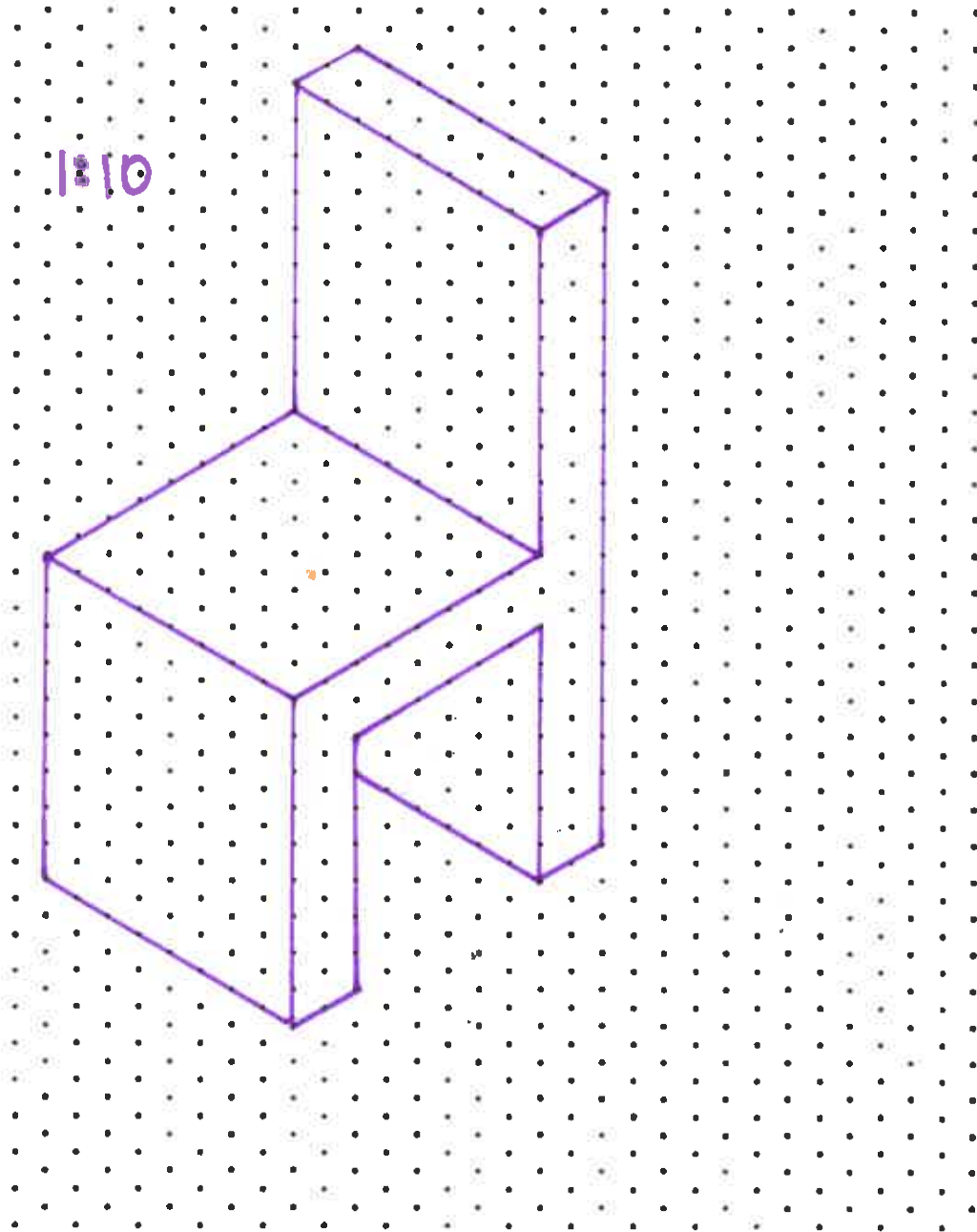


* all pieces are 2cm thick.

14. An industrial designer has created a chair made out of concrete for an outdoor recreation area. Using the isometric dot grid below, draw an isometric drawing of the chair at a scale of 1:10.



$90\text{ cm} \times \frac{1}{10} = 9\text{ cm}$
 $40\text{ cm} \times \frac{1}{10} = 4\text{ cm}$
 $35\text{ cm} \times \frac{1}{10} = 3.5\text{ cm}$
 $SF = \frac{1}{10}$
 $30\text{ cm} \times \frac{1}{10} = 3\text{ cm}$
 $10\text{ cm} \times \frac{1}{10} = 1\text{ cm}$



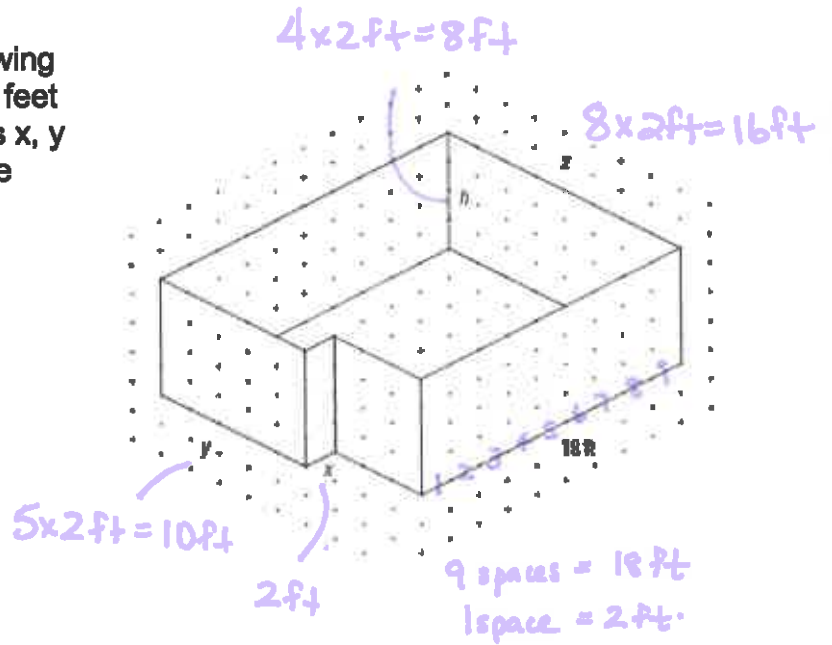
15. In the following isometric drawing of a room, the front wall is 18 feet long. Find the lengths of walls x, y and z and the height (h) of the room.

x = 2 ft

y = 10 ft

z = 16 ft

h = 8 ft



16. Draw a perspective drawing of a prism that has the front face shown. Use the horizon line and vanishing point given.

