## Workplace Mathematics 11 Unit 7 Project: Learning Guides $\mathbf{1 8 - 2 0}$ SCALE

Student: $\qquad$
T.A.: $\qquad$
Teacher: $\qquad$

COMPLETING THIS UNIT PROJECT

## ACTIVITIES:

Complete the following activities:
PART I:
Scale Drawing
PART II:
$\square$ Scale Statement \& Factor
PART III:
$\square$ Scale
PART IV:
$\square$ View Perspectives

Read through the information given and use it to complete the sections which follow. Be sure to answer each question and clearly show all of your work to demonstrate how you got your answers.

Use the grid provided to draw an enlargement of the following side view of a chair. Use a scale factor of 3.


## PART II - Scale Statement and Factor

A hockey player measures $\mathbf{1 . 9} \mathbf{~ m}$ tall. He is $\mathbf{5} \mathbf{~ c m}$ tall on a hockey card.
a) Write a scale statement for this hockey card. (1 mark)
b) What scale factor was used to make the card? (1 mark)

## PART III - Scale

A beluga whale that is actually 4.2 m long is represented in a children's picture book with the following picture.

a) Measure the drawing and write a scale statement for the picture. (1 mark)
b) An alligator is drawn in the same scale. In the drawing it is $\mathbf{5 . 9} \mathbf{~ c m}$ long. How long is the actual alligator? (1 mark)
c) How tall will an ostrich be in the picture if it is actually 1.9 m tall? (1 mark)

## PART IV - View Perspectives

Draw the top, front, and side view of this set of blocks:


Top View:

Front View:

Side View:

