

ALBERTA DISTANCE LEARNING CENTRE

Mathematics 10-3

MAT1793

Unit C: Measurement

Chapter 5 Lesson 2

Student's Questions and Comments

FOR STUDENT USE ONLY

Student Name:

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Assigned to

Marked by

Date received

Summary

| | Marks Earned | Total Possible Marks | Percent |
|----------|-----------------|----------------------------|---------|
| Lesson 2 | | 26 | |

Teacher's Comments:

Teacher's Signature

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Lesson Assignment

This assignment includes fill in the blank and short answer questions. Be sure to show all necessary work. You may ask for clarification from your teacher, but you will not be given the answer.

Lesson 2

- ① 1. In what year was the metric system reworked and launched as the International System of Units?
- ①.5 2. Complete the following table using SI units.

| | Base Unit |
|-----------------|-----------|
| length | |
| capacity/volume | |
| mass | |

- ②.5 3. What are the conversion factors for units with the following prefixes?

| Prefix | Conversion Factor |
|--------|-------------------|
| kilo | |
| deca | |
| deci | |
| milli | |
| hecto | |

4. Write a conversion ratio for centimetres and kilometres as
a. an equality

①

- b. a fraction equal to 1

①

5. Fill in the blanks.
Convert 32 km to decimetres.

③

$$\frac{y}{\cancel{\text{km}}} \times \frac{\cancel{\text{km}}}{\text{dm}} = \frac{\text{dm}}{\text{km}} \times \cancel{\text{km}}$$

$$y = \text{dm}$$

6. Use the **proportion strategy** to complete the following conversions.

- a. 786 dg = _____ hg

③

③

b. $38 \text{ kL} = \underline{\hspace{2cm}} \text{ daL}$

7. Convert the following, using the
- decimal point strategy**
- .

②

- a.
- 0.95 km
- to metres

Move the decimal point places to the .

$0.95 \text{ km} = \underline{\hspace{2cm}} \text{ m}$

②

- b.
- 72.3 mg
- to hectograms

Move the decimal point places to the .

$72.3 \text{ mg} = \underline{\hspace{2cm}} \text{ hg}$

8. Complete each of the following unit conversions.

②

- a. How many centigrams are equal to
- 9.95 mg
- ?

②

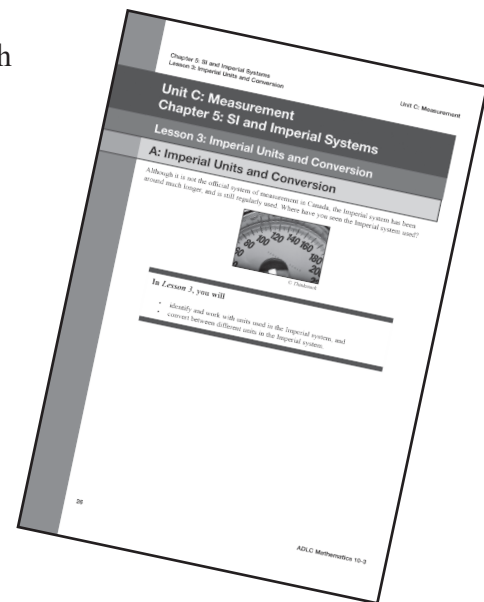
b. 921 dam = _____ dm

②

c. Convert 66.5 kL to decalitres.

You have completed *Lesson 2 Assignment*.

Please return to the *Module* and continue your exploration with *Lesson 3*.



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