

Apprenticeship and Workplace Mathematics 10

Module 1 Blackline Masters

This blackline master package, which includes all section assignments, as well as selected worksheets, activities, and other materials for teachers to make their own overhead transparencies or photocopies, is designed to accompany Open School BC's **AWM 10** course. BC teachers, instructional designers, graphic artists, and multimedia experts developed the course and blackline masters.

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Module 1

Section 1—Lesson A: Length

ESSENTIAL QUESTIONS	Before the Lesson: What I Know	After the Lesson: What I Learned	Examples
How is length measured in SI?			
What are the common units used when measuring length in SI?			
How are lengths in one unit converted to another unit?			

Module 1

Section 1—Lesson B: Area

ESSENTIAL QUESTIONS	Before the Lesson: What I Know	After the Lesson: What I Learned	Examples
How is area measured in SI?			
What are the common units we use to measure area?			
How are areas in one unit converted to another unit?			

Module 1

Section 1—Lesson C: Volume and Capacity

ESSENTIAL QUESTIONS	Before the Lesson: What I Know	After the Lesson: What I Learned	Examples
How are volume and capacity measured in SI?			
What are the common units used to measure volume and capacity?			
How can you convert between SI units for volumes and capacities?			

Module 1

Section 1—Lesson D: Mass

ESSENTIAL QUESTIONS	Before the Lesson: What I Know	After the Lesson: What I Learned	Examples
How is mass measured in SI?			
What are the common units used to measure mass?			
How is one unit used to describe a mass converted to another unit?			

Module 1

Section 1—Lesson E: Temperature

ESSENTIAL QUESTIONS	Before the Lesson: What I Know	After the Lesson: What I Learned	Examples
How is temperature measured in SI?			
What is the history of this temperature scale?			
How is the SI temperature scale used today?			

Section 1 Assignment Part 1: Measuring in Metric

Instructions:

For this assignment, you will need a tape measure that shows millimeters, centimeters and metres. You will also need two partners; ask friends and/or family members to help you. (**Total 8 marks**)

Procedure

Step 1: Measure your heights to the nearest millimetre. Record your measured heights in the appropriate column of the table below.

Step 2: Measure your heights to the nearest tenth of a centimetre. Record your measured heights in the appropriate column of the table below.

Step 3: Measure your heights to the nearest thousandth of a metre. Record your measured heights in the appropriate column of the table below.

(Completing the table below is worth 2 marks.)

Height			
	(mm)	(cm)	(m)
You			
Partner 1			
Partner 2			

Have a look at your completed table. Do you notice any patterns? Answer the following questions based on the patterns you see. You may use the measurements you recorded as examples in your explanations.

1. Explain how you would change a measurement from millimeters to centimeters and give an example. (2 marks)

Example:

2. Explain how you would change a measurement from metres to centimeters and give an example. (2 marks)

Example:

3. Explain how you would change a measurement from millimeters to metres and give an example. (2 marks)

Example:

Section 1 Assignment Part 2: SI Units of Length

Instructions:

Please show all your work. You may use your AWM 10 Data Pages. You will need a metric tape measure. (**Total 17 marks**)

1. Write the SI prefixes below in order from the smallest to the largest unit. (2 marks)

Si prefixes: milli, mega, micro, deca

1) _____ 2) _____ 3) _____ 4) _____

2. For each expression, choose the correct answer from the right-hand column. (3 marks)

_____	1. 7×10^2	A. 700
_____	2. 7×10^0	B. 107
_____	3. 7×10^{-2}	C. -93
_____	4. $7 + 10^2$	D. 70
_____	5. $7 - 10^2$	E. 7
_____	6. 0.7×10^2	F. 0.07

3. Francine is using a 12-mm metric (SI) wrench to work on the family car.

- a. Convert 12 mm to centimeters. (1 mark)

- b. Convert 12 mm to meters. (1 mark)

4. a. Using a metric tape measure, mark off a distance of 50 metres. Then, walking normally, count the number of steps it takes you to walk that distance.

Record your answer: (1 mark) _____

- b. How many steps would it take you to walk a kilometre? (2 marks)

5. Measure the width and height of the door to your room.
- Record these dimensions to the nearest tenth of a centimetre. (1 mark)
width: _____
height: _____
 - Convert the measurements in (a) to metres. (1 mark)

6. Give two examples of lengths that are best expressed in centimetres? Briefly explain your choices. (3 marks)

7. Work with a partner. You will need a metric (SI) measuring tape.

Step 1: Have your partner stretch their arms out to the sides as far as they can.

Step 2: Measure the distance from the tips of the fingers on one hand to the tips of the fingers on the other hand.

Record the distance: _____

Step 3: Measure your partner's height and record it: _____

Compare the two distances you measured. What do you notice? (2 marks)

Section 1 Assignment Part 3: SI Units of Area

Instructions:

Please show all your work. You may use your AWM 10 Data Pages. (**Total 20 marks**)

1. Name an everyday object that represents each of the following areas:

a. 1 mm^2 (1 mark) _____

b. 1 cm^2 (1 mark) _____

c. 1 m (1 mark) _____

2. Explain why the units for area are always stated as a square of some unit of length (e.g., m^2). (2 marks)

3. Explain why the conversion factor for cm^2 to mm^2 is 100, and not 10. You may draw a picture if it helps your explanation. (2 marks)

4. a. Draw a rectangle 24 cm^2 in area. Write its dimensions on your diagram. (2 marks)
- b. What is the area of this rectangle in square millimetres? (2 marks)
- c. What is the area of this rectangle in square metres? (2 marks)

5. Rectangular photo paper sheets for Jocelyn's printer measure 100 mm by 150 mm.

a. Determine the area of one sheet in mm^2 , in cm^2 , and in m^2 . (3 marks)

b. Which area unit do you think is most appropriate in 5.a? Explain your answer.
(1 mark)

6. A grass fire burned 2.5 ha of pasture. What is this area in m^2 ? (1 mark)

7. A reserve has 2 km^2 of pasture available for raising bison. Elders estimate that each animal requires 2.5 hectares. How many animals could they have in their herd? (2 marks)

Section 1 Assignment Part 4: SI Units of Volume and Capacity

Instructions:

Please show all your work. You may use your AWM 10 Data Pages. (**Total 16 marks**)

1. How many cubic metres of concrete would you need to lay a sidewalk 1 m wide, 6 m long, and 10 cm thick? (2 marks)
 2. Valerie's bedroom closet is 130 cm wide, 65 cm deep, and 260 cm high.
 - a. What is its volume in m^3 ? (2 marks)
 - b. What is the capacity in litres? (1 mark)
 3. The content of a toothpaste tube is 85 mL. Why does the manufacturer use millilitres rather than litres to display the amount of toothpaste? (1 mark)
 4. Measure the dimensions of a small rectangular box, such as a shoebox.
 - a. Record the dimensions of the box. (1 mark)

- b. What is the volume of the box in cm^3 ? (1 mark)
- c. What is the volume of the box in m^3 ? (2 marks)
- d. Which of those units is most appropriate? Explain your answer. (1 mark)

5. What everyday object has a volume of:

- a. a cubic metre? (1 mark)

- b. a cubic centimetre? (1 mark)

6. The volume of Great Bear Lake in the Northwest Territories is 2236 km^3 .

- a. What is the volume of water in cubic metres? (2 marks)

b. What is the volume of water in litres? (1 mark)

Section 1 Assignment Part 5: SI Units of Mass

Instructions:

Please show all your work. You may use your AWM 10 Data Pages. (**Total 16 marks**)

1. A multivitamin contains 90 mg of vitamin C per tablet. A bottle of the multivitamins contains 250 tablets.
 - a. Calculate the mass, in milligrams, of vitamin C in the bottle. (1 mark)
 - b. Express your answer to 1.a. in grams. (1 mark)
2. A 600-g caramel tiramisu cake is advertized for \$12.96.
 - a. How much does one gram of cake cost? (1 mark)
 - b. What is the mass of the cake in kg? (1 mark)
 - c. What is the cost of the cake per kilogram? (1 mark)

3. a. What is your mass (weight) in kg? (1 mark) _____
- b. About how many 250 mL bottles of bottled water is equivalent to your mass? (Ignore the weight of the plastic.) (2 marks)
4. Victor is having 0.5 m^3 of sand delivered to his home to put in his children's sandbox. The mass (weight) of the sand is 0.75 t.
- a. What is the mass (weight) of the sand in kilograms? (1 mark)
- b. How many kilograms would 2 m^3 weigh? (1 mark)
5. A certain spoon holds 5 mL of liquid. What is the mass of 10 spoonfuls of water? Determine the mass in:
- a. grams (2 marks)
- b. kilograms (1 mark)

- Uncle Luke is 50 years old. Luke says he eats eggs everyday and, over his entire life, he must have eaten a tonne of eggs. If one egg is 50 g, is Luke's statement possibly correct? Use calculations to support your answer. (3 marks)

Section 1 Assignment Part 6: SI Units of Temperature

Instructions:

Please show all your work. You may use your AWM 10 Data Pages. (**Total 8 marks**)

1. Match the following temperatures to the correct descriptions. (5 marks)

_____ Dinahi is fighting a cold. She has a slight fever	A. -40°C
_____ The temperature outdoors when there is a slight risk of frost	B. -5°C
_____ Oven temperature for roasting potatoes	C. 0°C
_____ Danger of freezing exposed flesh	D. 3°C
_____ Home thermostat set for comfort	E. 10°C
_____ Pleasant autumn day	F. 20°C
_____ Ice cream in freezing compartment of fridge	G. 38°C
_____ Safe internal temperature for cooked turkey	H. 35°C
_____ Extremely hot day	I. 85°C
_____ Ice water in restaurant	J. 175°C

2. Early last January, at Williams Lake, BC, the daily maximum temperature was -13°C and the minimum temperature was -22°C .

- a. What is the difference between these temperatures? (1 mark)

- b. What was the average temperature that day? (1 mark)

3. The temperature of boiling water is approximately 100°C . What is this temperature in kelvins? (1 mark)

Section 1 Assignment Part 7: Multiple Choice Section Review

Instructions:

Please complete the first five questions without a calculator. You may use your AWM 10 Data Pages. Each question is worth 1 mark. (**Total 15 marks**)

1. A carpenter cuts a 6 m board into 15 pieces of equal length. Calculate the length of each piece.
 - a. 0.4 cm
 - b. 2.5 cm
 - c. 40 cm
 - d. 140 cm

2. Leanne's rectangular garden measures 480 cm by 610 cm. Which of the following is the best estimate of the area of her garden?
 - a. 24 m^2
 - b. 30 m^2
 - c. 35 m^2
 - d. 46 m^2

3. The capacity of a carton of juice is 0.6 L. What is the volume of juice in millilitres?
 - a. 0.06 mL
 - b. 60 mL
 - c. 600 mL
 - d. 6000 mL

4. The volume of a cardboard box is 1500 cm^3 . What is the capacity of the box in litres?
 - a. 0.15 L
 - b. 1.5 L
 - c. 1500 L
 - d. 1 500 000 L

5. A water-saturated soil sample weighs 1.38 kg. The sample is allowed to dry completely and is then weighed a second time. The dry soil sample weighs 1.13 kg. Calculate the mass of water that was in the saturated sample.

- a. 0.25 g
- b. 2.51 g
- c. 250 g
- d. 251 000 g

You may use a calculator for the remaining questions if you need one.

6. Which of the following statements are true?

I	The SI originated in France after the French Revolution.
II	The SI is used in every country around the world.
III	The abbreviation SI comes from the French <i>Système Impériale</i> .

- a. I only
- b. I and III
- c. II and III
- d. III only

7. What is the base unit of length in the metric system?

- a. m
- b. m^2
- c. km
- d. km^2

8. Thomas handed in the following chart as part of his assignment.

Prefix	Symbol	Factor
kilo	k	10^3
deca	da	10^{-1}
centi	c	10^{-2}
milli	m	10^{-3}

What feedback should Thomas' teacher give him?

- a. All parts of the table are correct!
- b. The symbol for the prefix deca is incorrect.
- c. The factor for kilo is incorrect.

- d. The factor for deca is incorrect.

The Nutrition Facts label below comes from a box of granola bars. Use it to answer question 9.

Nutrition Facts	
Per 1 bar (26 g)	
Amount	% DV*
Calories 100	
Fat 2 g	3 %
Saturated 0.5 g + trans 0 g	3 %
Cholesterol 0 mg	
Sodium 55 mg	2 %
Potassium 45 mg	1 %
Carbohydrate 20 g	7 %
Fibre 1 g	4 %
Sugars 7 g	
Sugar Alcohol 0 g	
Protein 1 g	
Vitamin A	0 %
Vitamin C	0 %
Calcium	0 %
Iron	2 %

9. What is the combined mass of sodium, potassium, and protein found in one granola bar?
- 1.01×10^1 g
 - 1.1×10^1 g
 - 1.01×10^2 g
 - 1.1×10^3 g
10. What is the base unit of mass in the metric system?
- mg

- b. g
- c. cg
- d. kg

Use the following diagram to answer questions 11 and 12.



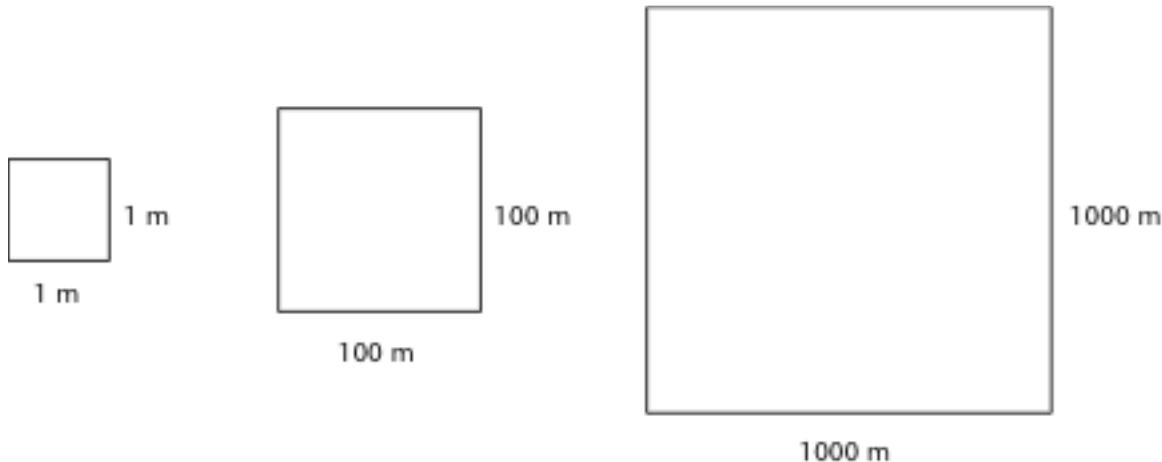
11. Two students have been asked to find the volume of the rectangular prism shown above.

Adrian's Solution	Chris' Solution

Which solution is correct?

- a. Adrian's only
 - b. Chris' only
 - c. Both students' solutions are correct.
 - d. Neither students' solutions is correct.
12. Calculate the capacity of the rectangular prism.
- a. 3.75×10^1 L
 - b. 3.75×10^1 mL
 - c. 3.75×10^3 mL
 - d. 3.75×10^6 mL

Use the diagram below to answer question 13.



13. Which of the following statements is true?
- Square I represents a kilometre.
 - Square II represents square metre.
 - Square II represents a hectare.
 - Square III represents a cubic metre.
14. Which shows the correct relationship between a hectare and a square kilometre?
- $1 \text{ km}^2 = 10^{-3} \text{ ha}$
 - $1 \text{ km}^2 = 10^{-2} \text{ ha}$
 - $1 \text{ km}^2 = 10^2 \text{ ha}$
 - $1 \text{ km}^2 = 10^3 \text{ ha}$
15. Which of the following statements are true?

I	The Celsius temperature scale is named after Anders Celsius who developed a similar scale using the boiling point of water and the melting point of ice.
II	Water freezes at approximately 100°C .
III	The human body is an excellent gauge of temperature.

- I only
- I and II
- I and III

d. II and III

Module 1

Section 2—Lesson A: Length

ESSENTIAL QUESTIONS	Before the Lesson: What I Know	After the Lesson: What I Learned	Examples
How are lengths and distances commonly measured in the imperial system?			
How are the units of the imperial system related to each other?			
How can units of length and distance be converted between the imperial and metric systems?			

Module 1

Section 2—Lesson B: Area

ESSENTIAL QUESTIONS	Before the Lesson: What I Know	After the Lesson: What I Learned	Examples
How are areas commonly measured in the imperial system?			
How are the units of area related?			
How can you convert between these units and area units in the SI (metric) system?			

Module 1

Section 2—Lesson C: Volume and Capacity

ESSENTIAL QUESTIONS	Before the Lesson: What I Know	After the Lesson: What I Learned	Examples
How are volumes and capacity commonly measured in the imperial system?			
How are the units related?			
How can you convert between metric and imperial units?			

Module 1

Section 2—Lesson D: Mass

ESSENTIAL QUESTIONS	Before the Lesson: What I Know	After the Lesson: What I Learned	Examples
How are masses commonly measured in the imperial system?			
How are the units for mass in the imperial system related?			
How are masses converted between the imperial and SI units?			

Module 1

Section 2—Lesson E: Temperature

ESSENTIAL QUESTIONS	Before the Lesson: What I Know	After the Lesson: What I Learned	Examples
How are temperatures measured on the Fahrenheit scale?			
With what common Fahrenheit temperatures should you be familiar?			
How are the Celsius and Fahrenheit scales related?			

Section 2 Assignment Part 1: Imperial Units of Length

Instructions:

Please show all your work. You may use your AWM 10 Data Pages. (**Total 20 marks**)

1. Name two objects about one inch in length. (1 mark)

- 2.



- a. At what measures on the ruler are points A and B? (2 marks)

A: _____

B: _____

- b. How far apart are A and B? (2 marks)

3. Nidal lives one block from his school. Nidal paced off the distance and estimates the distance to be 215 yd. What is this distance in feet? (2 marks)

4. The centre lines of vertical framing studs are commonly 16 in apart. To how many studs would an 8-ft length of sheeting be fastened? Ignore the width of the studs themselves. (Hint: The left edge of the sheet falls along the centre line of the first stud.) (2 marks)



5. A two-by-six is 1 in thick. How high would a stack of 10 two-by-sixes be? Express your answer in feet and inches. (2 marks)
6. One circuit of the running track at Jon's school is 440 yd. What fraction of a mile is that distance? (2 marks)
7. Norman, who lives in Fort St. John, is planning to visit his friend in Seattle. He will be travelling through Blaine, Washington. The distance from Fort St. John to Blaine is 1221 km. The distance from Blaine to Seattle is 109 mi. To the nearest kilometre, how far is it from Fort St. John to Seattle? (3 marks)

8. Monique was asked to quickly estimate the dimensions, in inches, of the cell phone shown here.

The cell phone measures approximately $5\frac{1}{2}$ inches by $2\frac{1}{2}$ inches.



- a. How do you think Monique arrived at this estimate? (1 mark)

- b. Do you think that Monique's estimate was a good one? Why or why not? (1 mark)

-
-
- c. What are the actual dimensions, in inches, of the phone? Round your answers to one decimal place. (Hint: use the conversion rate from your AWM 10 Data Pages.) (1 mark)
- d. Briefly describe a strategy you could use to quickly estimate the conversion between centimetres and inches. (1 mark)
-
-
-
-
-
-
-
-
-

Section 2 Assignment Part 2: Imperial Units of Area

Instructions:

Please show all your work. (**Total 16 marks**)

1. What everyday object measures about:

- a. 1 in^2 in area? (1 mark)

- b. 1 ft^2 in area? (1 mark)

2. A fitness club owner wishes to put down special flooring material in a room 25 ft by 30 ft. The flooring material is sold by the square yard. How many square yards are required for the room? Round your answer to the nearest square yard. (2 marks)
3. Jackie's lawnmower blade cuts a swath 21 in wide. How many square feet of grass will she cut if she pushes the mower 24 ft across her lawn? Round your answer to the nearest square foot. (2 marks)
4. Mark's bedroom measures 2.75 m by 3.66 m. Carpet is advertised at \$35 per square yard. How much would it cost to cover the bedroom floor with carpet? Round your answer to the nearest dollar. (4 marks)

5. Petra lives on an acreage 270 ft wide and 484 ft long. What is the size of the property in acres? You may use the conversion factors given below. Round your answer to the nearest acre. (3 marks)

$$1 \text{ in} = 4840 \text{ yd}^2$$

$$1 \text{ yd}^2 = 9 \text{ ft}^2$$

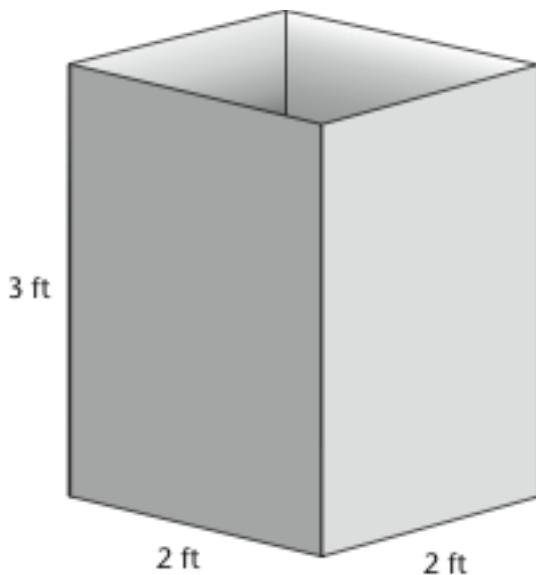
6. a. The conversion factor for miles and kilometers is provided on the AWM 10 Data Pages. How would you find the conversion factor to change square miles to square kilometres? Round your answer to two decimal places. (1 mark)
- b. The area of Alaska is $1717\ 854 \text{ km}^2$. What is its area in square miles? Round your answer to the nearest unit. (2 marks)

Section 2 Assignment Part 3: Imperial Units of Volume and Capacity

Instructions:

Please show all your work. (**Total 18 marks**)

1. In the lesson Focus, Peter's class wondered how many times over $20\ 000\ \text{ft}^3$ of air would fill their classroom. Their classroom measures 25 ft by 20 ft by 10 ft.
 - a. What is the volume of the classroom in cubic feet? (1 mark)
 - b. How many times larger is $20\ 000\ \text{ft}^3$ than the volume of the classroom? (1 mark)
2. How many cubic yards of concrete must be ordered to pour a rectangular driveway 30 ft long, 9 ft wide, and 6 in thick? (4 marks)
3. One cubic foot is approximately 7.5 US gallons. Rainwater is being collected from a flat roof 24 ft long and 10 ft wide. If it rains 1 inch, how many gallons will be collected? Round to the nearest gallon. (4 marks)
4. What is the capacity, in litres, of the box shown here? Round to the nearest litre. (4 marks)



5. Mikael found a container in his garage marked “1 gallon”. How could Mikael figure out if the capacity of the container is 1 British gallon or 1 US gallon? (2 marks)

6. Describe how the British quart compares to the US quart. You may use an example to help your description. (2 marks)

Section 2 Assignment Part 4: Imperial Units of Mass

Instructions:

Please show all your work. (**Total 13 marks**)

1. Describe how would you divide 1 lb of butter to obtain 2 oz for a cookie recipe, without using a scale. Remember, there are 16 oz in 1 lb. (2 marks)

2. Jasmeena is a powerlifter. For one exercise, she places the following plates on a 44-pound bar: two 35 lb, two 25 lb, two 10 lb.
 - a. What is the total weight of the bar used in this exercise? (1 mark)
 - b. If Jasmeena does four sets of five repetitions using the bar, what is the total weight she has lifted in this exercise? (1 marks)
3. If one bushel of canola weighs 60 lb, how many tons (short) would the canola weigh from a field 160 acres? The yield is 45 bushels per acre. (4 marks)

4. If one brick weighs 6 lb, approximately how many bricks are there in 1 tonne (metric) of bricks? Round to the nearest brick. (3 marks)

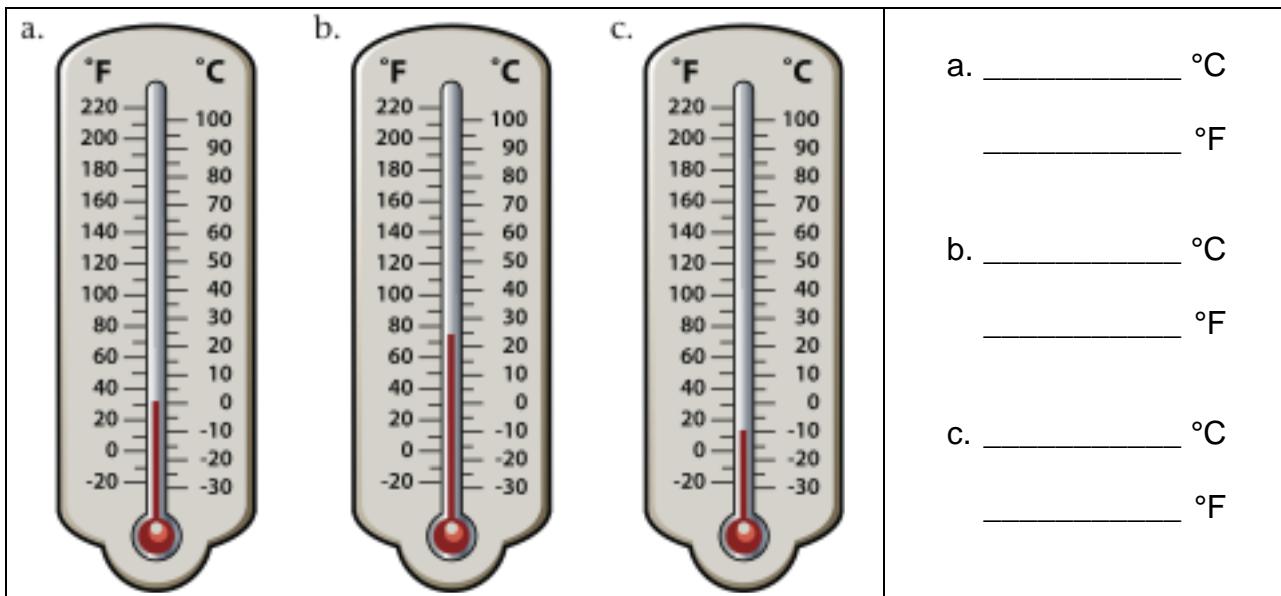
 5. Using only the information on the AWM 10 Data Pages, and what you know about the metric system, show how you would determine how many grams there are in 1 pound. Round to the nearest gram. (2 marks)

Section 2 Assignment Part 5: Imperial Units of Temperature

Instructions:

Please show all your work. (**Total 13 marks**)

1. Write down the temperature reading in both degrees Fahrenheit and degrees Celsius for each thermometer below. (3 marks)



2. The average June temperature in Joshua Tree National Park in southern California is 100°F. What is the equivalent Celsius temperature? Round your answer to the nearest degree. (2 marks)
3. Convert -40°C to Fahrenheit. What do you notice? (2 marks)
4. The highest recorded temperature in Canada was 45°C on July 5, 1947, in Midale and Yellowgrass, Saskatchewan. What is the equivalent Fahrenheit temperature? Round your answer to the nearest degree. (2 marks)

5. The difference between the high and low temperatures on a certain day last month was 15 Celsius degrees. What would the corresponding difference be in Fahrenheit degrees? (2 marks)

6. Which is colder, -10°C or 10°F ? Explain your answer. (2 marks)

Section 2 Assignment Part 6: “Metric vs. Imperial” Paragraph

By now, you have learned a lot about the metric (SI) and imperial measurement systems! You have learned about both systems, how to convert between units within each system, as well as how to convert between units across the two systems. You've also learned about the differences between certain American units of measure and the imperial units of measure.

Instructions:

In this part of your assignment, you will write a paragraph describing your experiences working with the metric and imperial systems of measurement. You must address **at least two of the following questions** in your paragraph. For the two questions you choose, you must answer the question fully and explain your answer. Be sure to label your choice in your response. **(5 marks)**

- A. Why is it important to be familiar with both systems of measurement?
- B. Compare the two systems of measurement. What are some of the advantages of one system over the other?
- C. Which measurement system do you prefer working with in practical applications? (i.e., day-to-day measurements, conversation)
- D. Which measurement system do you prefer working with mathematically? (i.e., performing conversions, solving problems)

You may use specific examples in your response, as well as pictures and/or calculations, if these add to your description. You may use your own experiences, information from the lesson content, information from the internet or information from other research sources.

Marking Guide:

- Your paragraph includes complete responses for two questions from the list. (4 marks)
- Your paragraph is clearly written using correct terminology. (1 mark)

Section 2 Assignment Part 7: Multiple Choice Section Review

Instructions:

Please complete the first five questions without a calculator. You may use your AWM 10 Data Pages. Each question is worth 1 mark. (**Total 15 marks**)

1. A coffee mug is 11 cm tall. Estimate this height in imperial units.
 - a. 4 inches
 - b. 30 inches
 - c. $\frac{1}{2}$ foot _____
 - d. 1 foot

2. Jack has a roll of linoleum that would cover 8 yd^2 . How many square feet would it cover?
 - a. $\frac{8}{9} \text{ ft}^2$ _____
 - b. $2\frac{2}{3} \text{ ft}^2$ _____
 - c. 24 ft^2
 - d. 72 ft^2

3. The distance from Vancouver to Kelowna is 246 miles. How would you estimate this distance in kilometres?
 - a. $200 \div 2$
 - b. 200×2
 - c. $300 \div 2$
 - d. 300×2

4. Arrange the following measurements from smallest to largest.

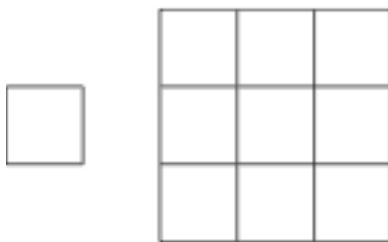
1 yd	4 ft	50 in	1 m
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- a. 1 yd, 1 m, 4 ft, 50 in
- b. 1 m, 1 yd, 4 ft, 50 in
- c. 4 ft, 50 in, 1 yd, 1 m

- d. 50 in, 4 ft, 1 m, 1 yd
5. A juice carton holds 2 L of juice. Which of the following measurements is closest to the capacity of the juice carton?
- a. $\frac{1}{2}$ British gallon _____
- b. 2 British quarts _____
- c. $\frac{1}{4}$ US gallon _____
- d. 2 US quarts _____

You may use a calculator for the remaining questions if you need one.

6. In the 2004 Olympics, Yelena Slesarenko set the high-jump record at 2.06 metres. Convert her jump to feet and inches.
- a. $7\frac{1}{2}$ " _____
- b. 6'7"
- c. 6'75"
- d. 6'9"
7. Which of the following statements is true?
- | | |
|-----|-------------------------------------|
| I | a mile is longer than a kilometre |
| II | a yard is longer than a metre |
| III | an inch is longer than a centimetre |
- a. I only
- b. II only
- c. I and III
- d. II and III
8. The diagram shows the relationship between which of the following units?



- a. feet and metres
 - b. feet and yards
 - c. square feet and square metres
 - d. square feet and square yards
9. Which of the following is an imperial unit of volume?
- a. ft^2
 - b. yd^3
 - c. m^3
 - d. L
10. A student was asked to solve the following problem:

On the third hole at the local golf course, the distance from the tee to the green is 174 yd. How many feet is this distance?

The student's solution is given below.

I	$\frac{x}{174 \text{ yd}} = \frac{1 \text{ yd}}{3 \text{ ft}}$
II	$x(3 \text{ ft}) = (1 \text{ yd})(174 \text{ yd})$
III	$x = \frac{(1 \text{ yd})(174 \text{ yd})}{(3 \text{ ft})}$
IV	$x = 58 \text{ ft}$

In what step did the student make the first mistake?

- a. I
- b. II
- c. III
- d. IV

11. Which of the following equations would you use to find the area of a table-top that measures 2'9" by 5'6"?

- a. $A = 29' \times 56'$
- b. $A = 33' \times 66'$
- c. $A = 2\frac{3}{4}' \times 5\frac{1}{2}'$ _____
- d. $A = (2 + 9)' \times (5 + 6)'$

12. How many British gallons are equivalent to 30 US gallons?

- a. 20
- b. 25
- c. 30
- d. 36

13. Arrange the following measurements from smallest to largest.

3 kg	380 g	8 lb
------	-------	------

- a. 3 kg, 8 lb, 380 g
- b. 8 lb, 3 kg, 380 g
- c. 380 g, 8 lb, 3 kg
- d. 380 g, 3 kg, 8 lb

14. Convert 2 lb to a measurement in grams.

- a. 0.0044 g
- b. 0.909 g
- c. 4.4 g
- d. 909 g

15. Which of the following would you use to convert 24°C to a temperature in degrees Fahrenheit?

- a. $\frac{5}{9}(24 - 32)$ _____

- b. $\frac{5}{9}(24) + 32$ _____
- c. $\frac{9}{5}(24 + 32)$ _____
- d. $\frac{9}{5}(24) + 32$ _____

SI Prefixes

Prefix	Symbol	Factor
mega	M	1 000 000 or 10^6
kilo	k	1000 or 10^3
hecto	h	100 or 10^2
deca	da	10 or 10^1
—	—	1 or 10^0
deci	d	0.1 or 10^{-1}
centi	c	0.01 or 10^{-2}
milli	m	0.001 or 10^{-3}
micro	μ	0.000 001 or 10^{-6}

TABLE OF CONVERSIONS

1 inch	\approx 2.54 centimetres
1 foot	\approx 30.5 centimetres
1 foot	\approx 0.305 metres
1 foot	= 12 inches
1 yard	= 3 feet
1 yard	\approx 0.915 metres
1 mile	= 1760 yards
1 mile	\approx 1.6 kilometres
1 kilogram	\approx 2.2 pounds
1 litre	\approx 1.06 US quarts
1 litre	\approx 0.26 US gallons
1 gallon	\approx 4 quarts
1 British gallon	$\approx \frac{6}{5}$ US gallon

FORMULAE

Temperature

$$C = \frac{5}{9}(F - 32)$$

Trigonometry

(Put your calculator in Degree Mode)

- Right triangles

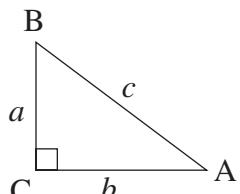
Pythagorean Theorem

$$a^2 + b^2 = c^2$$

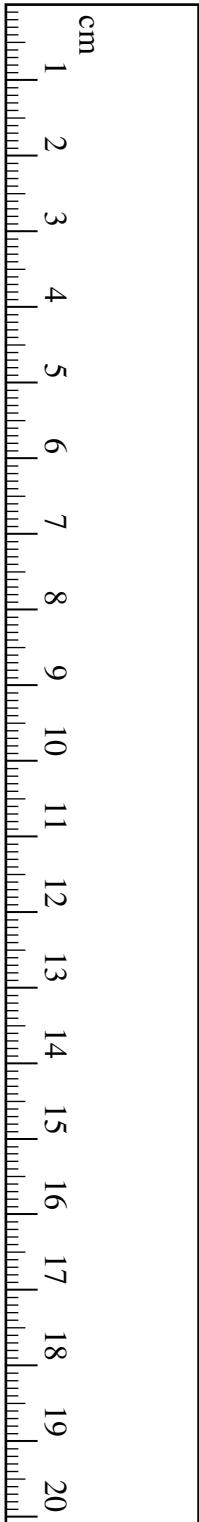
$$\sin A = \frac{\text{opposite}}{\text{hypotenuse}}$$

$$\cos A = \frac{\text{adjacent}}{\text{hypotenuse}}$$

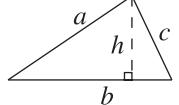
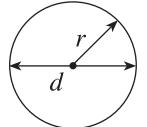
$$\tan A = \frac{\text{opposite}}{\text{adjacent}}$$



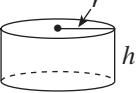
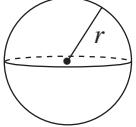
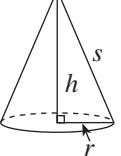
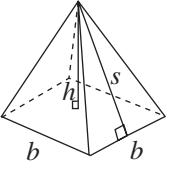
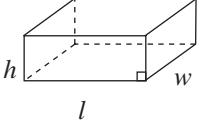
GEOMETRIC FORMULAE

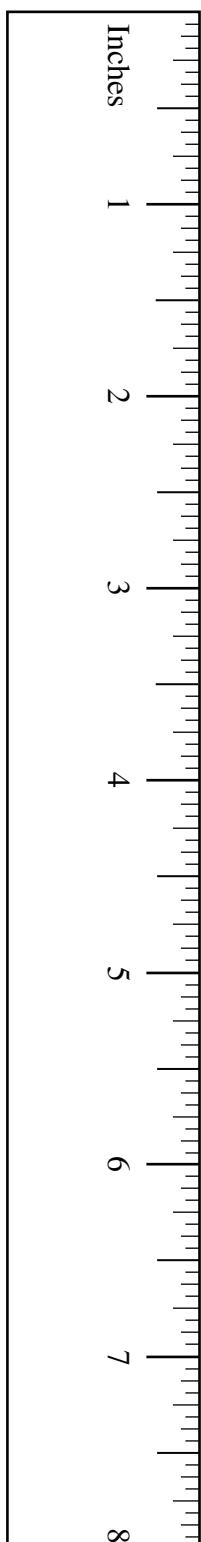


Key Legend	
l = length	P = perimeter
w = width	C = circumference
b = base	A = area
h = height	SA = surface area
s = slant height	V = volume
r = radius	
d = diameter	

Geometric Figure	Perimeter	Area
Rectangle 	$P = 2l + 2w$ or $P = 2(l + w)$	$A = lw$
Triangle 	$P = a + b + c$	$A = \frac{bh}{2}$
Circle 	$C = \pi d$ or $C = 2\pi r$	$A = \pi r^2$

Note: Use the value of π programmed in your calculator rather than the approximation of 3.14.

Geometric Figure	Surface Area
Cylinder 	$A_{top} = \pi r^2$ $A_{base} = \pi r^2$ $A_{side} = 2\pi rh$ $SA = 2\pi r^2 + 2\pi rh$
Sphere 	$SA = 4\pi r^2$ or $SA = \pi d^2$
Cone 	$A_{side} = \pi rs$ $A_{base} = \pi r^2$ $SA = \pi r^2 + \pi rs$
Square-Based Pyramid 	$A_{triangle} = \frac{1}{2} bs$ (for each triangle) $A_{base} = b^2$ $SA = 2bs + b^2$
Rectangular Prism 	$SA = wh + wh + lw + lw + lh + lh$ or $SA = 2(wh + lw + lh)$
General Right Prism	$SA =$ the sum of the areas of all the faces
General Pyramid	$SA =$ the sum of the areas of all the faces



Note: Use the value of π programmed in your calculator rather than the approximation of 3.14.

**Canada Pension Plan Contributions
Weekly (52 pay periods a year)**

**Cotisations au Régime de pensions du Canada
Hebdomadaire (52 périodes de paie par année)**

Pay Rémunération		CPP RPC	Pay Rémunération		CPP RPC	Pay Rémunération		CPP RPC	Pay Rémunération		CPP RPC
From - De	To - À	From - De	To - À	From - De	To - À	From - De	To - À	From - De	To - À	From - De	From - De
358.11	-	358.31	14.40	372.66	-	372.85	15.12	387.20	-	387.40	15.84
358.32	-	358.51	14.41	372.86	-	373.05	15.13	387.41	-	387.60	15.85
358.52	-	358.71	14.42	373.06	-	373.25	15.14	387.61	-	387.80	15.86
358.72	-	358.91	14.43	373.26	-	373.46	15.15	387.81	-	388.00	15.87
358.92	-	359.11	14.44	373.47	-	373.66	15.16	388.01	-	388.20	15.88
359.12	-	359.32	14.45	373.67	-	373.86	15.17	388.21	-	388.41	15.89
359.33	-	359.52	14.46	373.87	-	374.06	15.18	388.42	-	388.61	15.90
359.53	-	359.72	14.47	374.07	-	374.26	15.19	388.62	-	388.81	15.91
359.73	-	359.92	14.48	374.27	-	374.47	15.20	388.82	-	389.01	15.92
359.93	-	360.12	14.49	374.48	-	374.67	15.21	389.02	-	389.21	15.93
360.13	-	360.33	14.50	374.68	-	374.87	15.22	389.22	-	389.42	15.94
360.34	-	360.53	14.51	374.88	-	375.07	15.23	389.43	-	389.62	15.95
360.54	-	360.73	14.52	375.08	-	375.27	15.24	389.63	-	389.82	15.96
360.74	-	360.93	14.53	375.28	-	375.48	15.25	389.83	-	390.02	15.97
360.94	-	361.13	14.54	375.49	-	375.68	15.26	390.03	-	390.22	15.98
361.14	-	361.34	14.55	375.69	-	375.88	15.27	390.23	-	390.43	15.99
361.35	-	361.54	14.56	375.89	-	376.08	15.28	390.44	-	390.63	16.00
361.55	-	361.74	14.57	376.09	-	376.28	15.29	390.64	-	390.83	16.01
361.75	-	361.94	14.58	376.29	-	376.49	15.30	390.84	-	391.03	16.02
361.95	-	362.14	14.59	376.50	-	376.69	15.31	391.04	-	391.23	16.03
362.15	-	362.35	14.60	376.70	-	376.89	15.32	391.24	-	391.44	16.04
362.36	-	362.55	14.61	376.90	-	377.09	15.33	391.45	-	391.64	16.05
362.56	-	362.75	14.62	377.10	-	377.29	15.34	391.65	-	391.84	16.06
362.76	-	362.95	14.63	377.30	-	377.50	15.35	391.85	-	392.04	16.07
362.96	-	363.15	14.64	377.51	-	377.70	15.36	392.05	-	392.24	16.08
363.16	-	363.36	14.65	377.71	-	377.90	15.37	392.25	-	392.45	16.09
363.37	-	363.56	14.66	377.91	-	378.10	15.38	392.46	-	392.65	16.10
363.57	-	363.76	14.67	378.11	-	378.31	15.39	392.66	-	392.85	16.11
363.77	-	363.96	14.68	378.32	-	378.51	15.40	392.86	-	393.05	16.12
363.97	-	364.16	14.69	378.52	-	378.71	15.41	393.06	-	393.25	16.13
364.17	-	364.37	14.70	378.72	-	378.91	15.42	393.26	-	393.46	16.14
364.38	-	364.57	14.71	378.92	-	379.11	15.43	393.47	-	393.66	16.15
364.58	-	364.77	14.72	379.12	-	379.32	15.44	393.67	-	393.86	16.16
364.78	-	364.97	14.73	379.32	-	379.52	15.45	393.87	-	394.06	16.17
364.98	-	365.17	14.74	379.53	-	379.72	15.46	394.07	-	394.26	16.18
365.18	-	365.38	14.75	379.73	-	379.92	15.47	394.27	-	394.47	16.19
365.39	-	365.58	14.76	379.93	-	380.12	15.48	394.48	-	394.67	16.20
365.59	-	365.78	14.77	380.13	-	380.33	15.49	394.68	-	394.87	16.21
365.79	-	365.98	14.78	380.34	-	380.53	15.50	394.88	-	395.07	16.22
365.99	-	366.18	14.79	380.54	-	380.73	15.51	395.08	-	395.27	16.23
366.19	-	366.39	14.80	380.74	-	380.93	15.52	395.28	-	395.48	16.24
366.40	-	366.59	14.81	380.94	-	381.13	15.53	395.49	-	395.68	16.25
366.60	-	366.79	14.82	381.14	-	381.34	15.54	395.69	-	395.88	16.26
366.80	-	366.99	14.83	381.35	-	381.54	15.55	395.89	-	396.08	16.27
367.00	-	367.19	14.84	381.55	-	381.74	15.56	396.09	-	396.28	16.28
367.20	-	367.40	14.85	381.75	-	381.94	15.57	396.29	-	396.49	16.29
367.41	-	367.60	14.86	381.95	-	382.14	15.58	396.50	-	396.69	16.30
367.61	-	367.80	14.87	382.15	-	382.35	15.59	396.70	-	396.89	16.31
367.81	-	368.00	14.88	382.36	-	382.55	15.60	396.90	-	397.09	16.32
368.01	-	368.20	14.89	382.56	-	382.75	15.61	397.10	-	397.29	16.33
368.21	-	368.41	14.90	382.76	-	382.95	15.62	397.30	-	397.50	16.34
368.42	-	368.61	14.91	382.96	-	383.15	15.63	397.51	-	397.70	16.35
368.62	-	368.81	14.92	383.16	-	383.36	15.64	397.71	-	397.90	16.36
368.82	-	369.01	14.93	383.37	-	383.56	15.65	397.91	-	398.10	16.37
369.02	-	369.21	14.94	383.57	-	383.76	15.66	398.11	-	398.31	16.38
369.22	-	369.42	14.95	383.77	-	383.96	15.67	398.32	-	398.51	16.39
369.43	-	369.62	14.96	383.97	-	384.16	15.68	398.52	-	398.71	16.40
369.63	-	369.82	14.97	384.17	-	384.37	15.69	398.72	-	398.91	16.41
369.83	-	370.02	14.98	384.38	-	384.57	15.70	398.92	-	399.11	16.42
370.03	-	370.22	14.99	384.58	-	384.77	15.71	399.12	-	399.32	16.43
370.23	-	370.43	15.00	384.78	-	384.97	15.72	399.33	-	399.52	16.44
370.44	-	370.63	15.01	384.98	-	385.17	15.73	399.53	-	399.72	16.45
370.64	-	370.83	15.02	385.18	-	385.38	15.74	399.73	-	399.92	16.46
370.84	-	371.03	15.03	385.39	-	385.58	15.75	399.93	-	400.12	16.47
371.04	-	371.23	15.04	385.59	-	385.78	15.76	400.13	-	400.33	16.48
371.24	-	371.44	15.05	385.79	-	385.98	15.77	400.34	-	400.53	16.49
371.45	-	371.64	15.06	385.99	-	386.18	15.78	400.54	-	400.73	16.50
371.65	-	371.84	15.07	386.19	-	386.39	15.79	400.74	-	400.93	16.51
371.85	-	372.04	15.08	386.40	-	386.59	15.80	400.94	-	401.13	16.52
372.05	-	372.24	15.09	386.60	-	386.79	15.81	401.14	-	401.34	16.53
372.25	-	372.45	15.10	386.80	-	386.99	15.82	401.35	-	401.54	16.54
372.46	-	372.65	15.11	387.00	-	387.19	15.83	401.55	-	401.74	16.55

Employee's maximum CPP contribution for the year 2009 is \$2,118.60

B-6

La cotisation maximale de l'employé au RPC pour l'année 2009 est de 2 118,60 \$

Employment Insurance Premiums

Cotisations à l'assurance-emploi

Insurable Earnings Rémunération assurable		El premium Cotisation d'AE									
From - De	To - À		From - De	To - À		From - De	To - À		From - De	To - À	
333.24	-	333.81	5.77	374.86	-	375.43	6.49	416.48	-	417.05	7.21
333.82	-	334.39	5.78	375.44	-	376.01	6.50	417.06	-	417.63	7.22
334.40	-	334.97	5.79	376.02	-	376.58	6.51	417.64	-	418.20	7.23
334.98	-	335.54	5.80	376.59	-	377.16	6.52	418.21	-	418.78	7.24
335.55	-	336.12	5.81	377.17	-	377.74	6.53	418.79	-	419.36	7.25
336.13	-	336.70	5.82	377.75	-	378.32	6.54	419.37	-	419.94	7.26
336.71	-	337.28	5.83	378.33	-	378.90	6.55	419.95	-	420.52	7.27
337.29	-	337.86	5.84	378.91	-	379.47	6.56	420.53	-	421.09	7.28
337.87	-	338.43	5.85	379.48	-	380.05	6.57	421.10	-	421.67	7.29
338.44	-	339.01	5.86	380.06	-	380.63	6.58	421.68	-	422.25	7.30
339.02	-	339.59	5.87	380.64	-	381.21	6.59	422.26	-	422.83	7.31
339.60	-	340.17	5.88	381.22	-	381.79	6.60	422.84	-	423.41	7.32
340.18	-	340.75	5.89	381.80	-	382.36	6.61	423.42	-	423.98	7.33
340.76	-	341.32	5.90	382.37	-	382.94	6.62	423.99	-	424.56	7.34
341.33	-	341.90	5.91	382.95	-	383.52	6.63	424.57	-	425.14	7.35
341.91	-	342.48	5.92	383.53	-	384.10	6.64	425.15	-	425.72	7.36
342.49	-	343.06	5.93	384.11	-	384.68	6.65	425.73	-	426.30	7.37
343.07	-	343.64	5.94	384.69	-	385.26	6.66	426.31	-	426.87	7.38
343.65	-	344.21	5.95	385.27	-	385.83	6.67	426.88	-	427.45	7.39
344.22	-	344.79	5.96	385.84	-	386.41	6.68	427.46	-	428.03	7.40
344.80	-	345.37	5.97	386.42	-	386.99	6.69	428.04	-	428.61	7.41
345.38	-	345.95	5.98	387.00	-	387.57	6.70	428.62	-	429.19	7.42
345.96	-	346.53	5.99	387.58	-	388.15	6.71	429.20	-	429.76	7.43
346.54	-	347.10	6.00	388.16	-	388.72	6.72	429.77	-	430.34	7.44
347.11	-	347.68	6.01	388.73	-	389.30	6.73	430.35	-	430.92	7.45
347.69	-	348.26	6.02	389.31	-	389.88	6.74	430.93	-	431.50	7.46
348.27	-	348.84	6.03	389.89	-	390.46	6.75	431.51	-	432.08	7.47
348.85	-	349.42	6.04	390.47	-	391.04	6.76	432.09	-	432.65	7.48
349.43	-	349.99	6.05	391.05	-	391.61	6.77	432.66	-	433.23	7.49
350.00	-	350.57	6.06	391.62	-	392.19	6.78	433.24	-	433.81	7.50
350.58	-	351.15	6.07	392.20	-	392.77	6.79	433.82	-	434.39	7.51
351.16	-	351.73	6.08	392.78	-	393.35	6.80	434.40	-	434.97	7.52
351.74	-	352.31	6.09	393.36	-	393.93	6.81	434.98	-	435.54	7.53
352.32	-	352.89	6.10	393.94	-	394.50	6.82	435.55	-	436.12	7.54
352.90	-	353.46	6.11	394.51	-	395.08	6.83	436.13	-	436.70	7.55
353.47	-	354.04	6.12	395.09	-	395.66	6.84	436.71	-	437.28	7.56
354.05	-	354.62	6.13	395.67	-	396.24	6.85	437.29	-	437.86	7.57
354.63	-	355.20	6.14	396.25	-	396.82	6.86	437.87	-	438.43	7.58
355.21	-	355.78	6.15	396.83	-	397.39	6.87	438.44	-	439.01	7.59
355.79	-	356.35	6.16	397.40	-	397.97	6.88	439.02	-	439.59	7.60
356.36	-	356.93	6.17	397.98	-	398.55	6.89	439.60	-	440.17	7.61
356.94	-	357.51	6.18	398.56	-	399.13	6.90	440.18	-	440.75	7.62
357.52	-	358.09	6.19	399.14	-	399.71	6.91	440.76	-	441.32	7.63
358.10	-	358.67	6.20	399.72	-	400.28	6.92	441.33	-	441.90	7.64
358.68	-	359.24	6.21	400.29	-	400.86	6.93	441.91	-	442.48	7.65
359.25	-	359.82	6.22	400.87	-	401.44	6.94	442.49	-	443.06	7.66
359.83	-	360.40	6.23	401.45	-	402.02	6.95	443.07	-	443.64	7.67
360.41	-	360.98	6.24	402.03	-	402.60	6.96	443.65	-	444.21	7.68
360.99	-	361.56	6.25	402.61	-	403.17	6.97	444.22	-	444.79	7.69
361.57	-	362.13	6.26	403.18	-	403.75	6.98	444.80	-	445.37	7.70
362.14	-	362.71	6.27	403.76	-	404.33	6.99	445.38	-	445.95	7.71
362.72	-	363.29	6.28	404.34	-	404.91	7.00	445.96	-	446.53	7.72
363.30	-	363.87	6.29	404.92	-	405.49	7.01	446.54	-	447.10	7.73
363.88	-	364.45	6.30	405.50	-	406.06	7.02	447.11	-	447.68	7.74
364.46	-	365.02	6.31	406.07	-	406.64	7.03	447.69	-	448.26	7.75
365.03	-	365.60	6.32	406.65	-	407.22	7.04	448.27	-	448.84	7.76
365.61	-	366.18	6.33	407.23	-	407.80	7.05	448.85	-	449.42	7.77
366.19	-	366.76	6.34	407.81	-	408.38	7.06	449.43	-	449.99	7.78
366.77	-	367.34	6.35	408.39	-	408.95	7.07	450.00	-	450.57	7.79
367.35	-	367.91	6.36	408.96	-	409.53	7.08	450.58	-	451.15	7.80
367.92	-	368.49	6.37	409.54	-	410.11	7.09	451.16	-	451.73	7.81
368.50	-	369.07	6.38	410.12	-	410.69	7.10	451.74	-	452.31	7.82
369.08	-	369.65	6.39	410.70	-	411.27	7.11	452.32	-	452.89	7.83
369.66	-	370.23	6.40	411.28	-	411.84	7.12	452.90	-	453.46	7.84
370.24	-	370.80	6.41	411.85	-	412.42	7.13	453.47	-	454.04	7.85
370.81	-	371.38	6.42	412.43	-	413.00	7.14	454.05	-	454.62	7.86
371.39	-	371.96	6.43	413.01	-	413.58	7.15	454.63	-	455.20	7.87
371.97	-	372.54	6.44	413.59	-	414.16	7.16	455.21	-	455.78	7.88
372.55	-	373.12	6.45	414.17	-	414.73	7.17	455.79	-	456.35	7.89
373.13	-	373.69	6.46	414.74	-	415.31	7.18	456.36	-	456.93	7.90
373.70	-	374.27	6.47	415.32	-	415.89	7.19	456.94	-	457.51	7.91
374.28	-	374.85	6.48	415.90	-	416.47	7.20	457.52	-	458.09	7.92

Yearly maximum insurable earnings are \$42,300

Yearly maximum employee premiums are \$731.79

The premium rate for 2009 is 1.73 %

Le maximum annuel de la rémunération assurable est de 42 300 \$

La cotisation maximale annuelle de l'employé est de 731,79 \$

Le taux de cotisation pour 2009 est de 1,73 %

Federal tax deductions

Effective January 1, 2009

Weekly (52 pay periods a year)

Also look up the tax deductions
in the provincial table

Retenues d'impôt fédéral

En vigueur le 1^{er} janvier 2009

Hebdomadaire (52 périodes de paie par année)

Cherchez aussi les retenues d'impôt
dans la table provinciale

Pay Rémunération	Federal claim codes/Codes de demande fédéraux									
	0	1	2	3	4	5	6	7	8	9
From Less than De Moins de	Deduct from each pay Retenez sur chaque paie									
335 - 339	44.65	15.55	12.70	7.00	1.30					
339 - 343	45.20	16.10	13.25	7.55	1.85					
343 - 347	45.80	16.65	13.80	8.10	2.45					
347 - 351	46.35	17.20	14.35	8.65	3.00					
351 - 355	46.90	17.75	14.90	9.25	3.55					
355 - 359	47.45	18.35	15.50	9.80	4.10					
359 - 363	48.00	18.90	16.05	10.35	4.65					
363 - 367	48.60	19.45	16.60	10.90	5.25					
367 - 371	49.15	20.00	17.15	11.45	5.80	.10				
371 - 375	49.70	20.55	17.70	12.05	6.35	.65				
375 - 379	50.25	21.15	18.30	12.60	6.90	1.20				
379 - 383	50.80	21.70	18.85	13.15	7.45	1.80				
383 - 387	51.40	22.25	19.40	13.70	8.00	2.35				
387 - 391	51.95	22.80	19.95	14.25	8.60	2.90				
391 - 395	52.50	23.35	20.50	14.85	9.15	3.45				
395 - 399	53.05	23.95	21.10	15.40	9.70	4.00				
399 - 403	53.60	24.50	21.65	15.95	10.25	4.60				
403 - 407	54.20	25.05	22.20	16.50	10.80	5.15				
407 - 411	54.75	25.60	22.75	17.05	11.40	5.70				
411 - 415	55.30	26.15	23.30	17.65	11.95	6.25	.55			
415 - 419	55.85	26.75	23.90	18.20	12.50	6.80	1.15			
419 - 423	56.40	27.30	24.45	18.75	13.05	7.40	1.70			
423 - 427	57.00	27.85	25.00	19.30	13.60	7.95	2.25			
427 - 431	57.55	28.40	25.55	19.85	14.20	8.50	2.80			
431 - 435	58.10	28.95	26.10	20.45	14.75	9.05	3.35			
435 - 439	58.65	29.50	26.70	21.00	15.30	9.60	3.95			
439 - 443	59.20	30.10	27.25	21.55	15.85	10.20	4.50			
443 - 447	59.80	30.65	27.80	22.10	16.40	10.75	5.05			
447 - 451	60.35	31.20	28.35	22.65	17.00	11.30	5.60			
451 - 455	60.90	31.75	28.90	23.25	17.55	11.85	6.15	.50		
455 - 459	61.45	32.30	29.50	23.80	18.10	12.40	6.75	1.05		
459 - 463	62.00	32.90	30.05	24.35	18.65	12.95	7.30	1.60		
463 - 467	62.60	33.45	30.60	24.90	19.20	13.55	7.85	2.15		
467 - 471	63.15	34.00	31.15	25.45	19.80	14.10	8.40	2.70		
471 - 475	63.70	34.55	31.70	26.05	20.35	14.65	8.95	3.30		
475 - 479	64.25	35.10	32.30	26.60	20.90	15.20	9.55	3.85		
479 - 483	64.80	35.70	32.85	27.15	21.45	15.75	10.10	4.40		
483 - 487	65.40	36.25	33.40	27.70	22.00	16.35	10.65	4.95		
487 - 491	65.95	36.80	33.95	28.25	22.60	16.90	11.20	5.50		
491 - 495	66.50	37.35	34.50	28.85	23.15	17.45	11.75	6.10	.40	
495 - 499	67.05	37.90	35.10	29.40	23.70	18.00	12.35	6.65	.95	
499 - 503	67.60	38.50	35.65	29.95	24.25	18.55	12.90	7.20	1.50	
503 - 507	68.20	39.05	36.20	30.50	24.80	19.15	13.45	7.75	2.05	
507 - 511	68.75	39.60	36.75	31.05	25.40	19.70	14.00	8.30	2.65	
511 - 515	69.30	40.15	37.30	31.65	25.95	20.25	14.55	8.90	3.20	
515 - 519	69.85	40.70	37.90	32.20	26.50	20.80	15.15	9.45	3.75	
519 - 523	70.40	41.30	38.45	32.75	27.05	21.35	15.70	10.00	4.30	
523 - 527	71.00	41.85	39.00	33.30	27.60	21.95	16.25	10.55	4.85	
527 - 531	71.55	42.40	39.55	33.85	28.20	22.50	16.80	11.10	5.45	
531 - 535	72.10	42.95	40.10	34.45	28.75	23.05	17.35	11.70	6.00	.30
535 - 539	72.65	43.50	40.70	35.00	29.30	23.60	17.90	12.25	6.55	.85
539 - 543	73.20	44.10	41.25	35.55	29.85	24.15	18.50	12.80	7.10	1.40
543 - 547	73.80	44.65	41.80	36.10	30.40	24.75	19.05	13.35	7.65	2.00
547 - 551	74.35	45.20	42.35	36.65	31.00	25.30	19.60	13.90	8.25	2.55
551 - 555	74.90	45.75	42.90	37.25	31.55	25.85	20.15	14.50	8.80	3.10

This table is available on TOD

D-2

You pouvez obtenir cette table sur TSD

British Columbia provincial tax deductions

Effective January 1, 2009

Weekly (52 pay periods a year)

Also look up the tax deductions
in the federal table

Retenues d'impôt provincial de la Colombie-Britannique

En vigueur le 1^{er} janvier 2009

Hebdomadaire (52 périodes de paie par année)

Cherchez aussi les retenues d'impôt
dans la table fédérale

Pay Rémunération	Provincial claim codes/Codes de demande provinciaux									
	0	1	2	3	4	5	6	7	8	9
From Less than De Moins de	Deduct from each pay Retenez sur chaque paie									
343	*	.00								
343 - 345	9.30	.20								
345 - 347	9.45	.35								
347 - 349	9.60	.50								
349 - 351	9.80	.65								
351 - 353	9.95	.80								
353 - 355	10.10	.95								
355 - 357	10.25	1.15	.10							
357 - 359	10.40	1.30	.25							
359 - 361	10.55	1.45	.40							
361 - 363	10.75	1.60	.60							
363 - 365	10.90	1.75	.75							
365 - 367	11.05	1.90	.90							
367 - 369	11.20	2.10	1.05							
369 - 371	11.35	2.25	1.20							
371 - 373	11.50	2.40	1.35							
373 - 375	11.70	2.55	1.55							
375 - 377	11.85	2.70	1.70							
377 - 379	12.00	2.90	1.85							
379 - 381	12.15	3.05	2.00							
381 - 383	12.30	3.20	2.15	.10						
383 - 385	12.45	3.35	2.30	.25						
385 - 387	12.65	3.50	2.50	.45						
387 - 389	12.80	3.65	2.65	.60						
389 - 391	12.95	3.85	2.80	.75						
391 - 393	13.10	4.00	2.95	.90						
393 - 395	13.25	4.15	3.10	1.05						
395 - 397	13.40	4.30	3.30	1.20						
397 - 399	13.60	4.45	3.45	1.40						
399 - 401	13.75	4.60	3.60	1.55						
401 - 403	13.90	4.80	3.75	1.70						
403 - 405	14.05	4.95	3.90	1.85						
405 - 407	14.20	5.10	4.05	2.00						
407 - 409	14.35	5.25	4.25	2.15	.10					
409 - 411	14.55	5.40	4.40	2.35	.30					
411 - 413	14.70	5.55	4.55	2.50	.45					
413 - 415	14.85	5.75	4.70	2.65	.60					
415 - 417	15.00	5.90	4.85	2.80	.75					
417 - 419	15.15	6.05	5.00	2.95	.90					
419 - 421	15.30	6.20	5.20	3.10	1.05					
421 - 423	15.50	6.35	5.35	3.30	1.25					
423 - 425	15.65	6.50	5.50	3.45	1.40					
425 - 427	15.80	6.70	5.65	3.60	1.55					
427 - 429	15.95	6.85	5.80	3.75	1.70					
429 - 431	16.10	7.00	5.95	3.90	1.85					
431 - 433	16.25	7.15	6.15	4.10	2.00					
433 - 435	16.45	7.30	6.30	4.25	2.20	.15				
435 - 437	16.60	7.45	6.45	4.40	2.35	.30				
437 - 439	16.75	7.65	6.60	4.55	2.50	.45				
439 - 441	16.90	7.80	6.75	4.70	2.65	.60				
441 - 443	17.05	7.95	6.90	4.85	2.80	.75				
443 - 445	17.20	8.10	7.10	5.05	2.95	.90				
445 - 447	17.40	8.25	7.25	5.20	3.15	1.10				
447 - 449	17.55	8.40	7.40	5.35	3.30	1.25				
449 - 451	17.70	8.60	7.55	5.50	3.45	1.40				

This table is available on TOD

E-1

Vous pouvez obtenir cette table sur TSD