## WIR AMICS

## Multiple Choice (15 Marks)

Shade in the letter in corresponding to the correct solution on the scantron sheet that is provided.

1. Farmers must monitor their cattle for signs of infection or disease. A cow's healthy body temperature is 102.5°F. What is its body temperature in degrees Celsius?

Name:

A)	41.2°C	C)	43°C
B)	39.2°C	D)	37.2°C

2. The melting point of iron is 1536°C. At what temperature in degrees Fahrenheit will iron melt?

A)	835°F	C)	2822°F
B)	2732°F	D)	2797°F

3. Brad is visiting friends in Portland, Maine. A thermometer outside the house reads 28°F. What is the temperature in degrees Celsius?

A) –9.2°C	C)	9.8°C
B) −2.2°C	D)	2.8°C

4. The temperature of a windshield on a winter morning is 10°F. If the melting point is 0°C, how many degrees must the temperature of the windshield be raised before the ice can melt?

A)	26°F	C)	32°F
B)	17°F	D)	22°F

5. You would like to buy 1.5 lb of deli meats. What should be the reading on the electronic scale when the correct amount of meat is placed on it?

A)	27.0 oz	C)	42.0 oz
B)	12.0 oz	D)	24.0 oz

6. Smoked salmon is being sold for \$15.50 per pound. What is the cost of 6 ounces of salmon?

A) \$11.62	C) \$5.81
B) \$7.75	D) \$7.21

7. A roofing company has a contract to shingle 18 identical houses in one week. It takes 105 pounds of shingles to cover a roof. How many tons of shingles should they order?

A)	1.058 tons	C)	0.945 tons
B)	0.0525 tons	D)	1.89 tons

8. Kathy spent \$22.18 on birdseed being sold for \$0.91/lb. How much birdseed did she buy?

A)	25 lb 6 oz	C)	20 lb 4 oz
B)	24 lb 6 oz	D)	24 lb 7 oz

9. Three-bean salad is sold for \$1.16/100 g at the deli. What would be the price for a large, 0.9-kg container of salad?

A)	\$20.88	C)	\$11.78
B)	\$5.22	D)	\$10.44

10. Iwana Bestrong can bench press 270 lb at the gym. What is this weight in kilograms?

A)	127.8 kg	C)	102.5 kg
B)	135.0 kg	D)	122.7 kg

11. Peaches from the Okanagan, BC, are shipped to the USA. If their cost in Canada is \$4.46/kg, what will their cost be per pound in the United States?

A)	\$1.62/lb	C)	\$2.03/lb
B)	\$2.23/lb	D)	\$2.43/lb

12. An RV leaving Canada is stopped at customs at the border and weighed. The scale shows a reading of 2.5 tons. What is the weight of the RV in tonnes?

A)	2.5 tonnes	C)	3.5 tonnes
B)	2.3 tonnes	D)	1.8 tonnes

13. How many bushels of corn are there in 285 tonnes? The conversion factor is 11.065 bu/t.

A)	3439 bu	C)	28 bu
B)	26 bu	D)	3154 bu

14. Dallas is buying firewood for the winter. Firewood is being sold for \$179.00/cord, but Dallas estimates he will need 300 kg. If the conversion factor is 375 kg/cord, how much will he spend on firewood?

A)	\$157.52	C)	\$114.56
B)	\$143.20	D)	\$100.24

15. A diving platform at a public swimming pool has a maximum load of 300 lb. How many 40-kg children can stand on the platform?

A)	1	C) 6
B)	4	D) 3

## **Short Response (6 Marks)**

Show ALL your work in the space provided and put the solution in the blank.

a)  $8^{\circ}C = \_^{\circ}F$  b)  $475^{\circ}F = \_^{\circ}C$  c)  $166 \text{ oz} = \__{\circ}Ds = \__{\circ}Oz$ 

d) 2 kg = \_\_\_\_\_ oz

e) 98 kg = \_\_\_\_\_ lbs

f) 2.5 t =\_\_\_\_\_lbs

 Mr. Hallihan is hosting Thanksgiving dinner at his place. He knows that the Canada Food Guide serving suggestion for turkey is 75 g per person. In order to have enough for 16 family members, how many **pounds** of turkey should he buy from the grocery store? [2]

Best Option: \_\_\_\_\_ Money Saved / Ounce = \$\_\_\_\_\_

4. The conversion factor for iceberg lettuce is 60.35 bu/t. What would be the weight of 9 bushels, in **kilograms**? [2]

5. Your SI unit candy thermometer displays a temperature of 60°C in the fudge you are cooking. Your cookbook say the fudge batter must be heated to exactly 175°F.	'S				
a) How many <b>degrees Celsius away</b> from 175°F is the mixture?					
<b>Temperature</b> =					
b) Is your mixture above or below this temperature? Circle: ABOVE / BELOW	[1]				
<ol> <li>An elevator has a maximum capacity of 1350 lb. Charlie weighs 245 lb and he has 25 pallets of paper to deliver in building. Each pallet weighs 62 kg.</li> </ol>	1 the				
a) If Charlie always rides the elevator with his paper deliveries, how much remaining capacity does the elevator have in <b>kilograms</b> ?					
Remaining Capacity =					
b) How many pallets at a time can Charlie load into the elevator? He cannot load partial pallets.	[1]				
Number of Pallets =					
c) How many trips will Charlie make to deliver <b>all</b> the paper?	[1]				
Number of Trips =					
7. There are 10 containers packed with peanuts. Each container measures 2.5 feet by 4 feet by 1.5 feet.					
a) How many <b>cubic inches</b> of peanuts are there in <b>total</b> ?	[3]				
Volume =					
b) If a bushel is 2250 cubic inches, how many <b>bushels</b> of peanuts are there in total?	[1]				

Number of Bushels = \_\_\_\_\_