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## Multiple Choice ( $\mathbf{1 5}$ 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 $102.5^{\circ} \mathrm{F}$. What is its body temperature in degrees Celsius?
A) $41.2^{\circ} \mathrm{C}$
B) $39.2^{\circ} \mathrm{C}$
C) $43^{\circ} \mathrm{C}$
D) $37.2^{\circ} \mathrm{C}$
2. The melting point of iron is $1536^{\circ} \mathrm{C}$. At what temperature in degrees Fahrenheit will iron melt?
A) $835^{\circ} \mathrm{F}$
B) $2732^{\circ} \mathrm{F}$
C) $2822^{\circ} \mathrm{F}$
D) $2797^{\circ} \mathrm{F}$
3. Brad is visiting friends in Portland, Maine. A thermometer outside the house reads $28^{\circ} \mathrm{F}$. What is the temperature in degrees Celsius?
A) $-9.2^{\circ} \mathrm{C}$
B) $-2.2^{\circ} \mathrm{C}$
C) $9.8^{\circ} \mathrm{C}$
D) $2.8^{\circ} \mathrm{C}$
4. The temperature of a windshield on a winter morning is $10^{\circ} \mathrm{F}$. If the melting point is $0^{\circ} \mathrm{C}$, how many degrees must the temperature of the windshield be raised before the ice can melt?
A) $26^{\circ} \mathrm{F}$
B) $17^{\circ} \mathrm{F}$
C) $32^{\circ} \mathrm{F}$
D) $22^{\circ} \mathrm{F}$
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
B) 12.0 oz
C) 42.0 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) $\$ 11.62$
B) $\$ 7.75$
C) $\$ 5.81$
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
B) 0.0525 tons
C) 0.945 tons
D) 1.89 tons
8. Kathy spent $\$ 22.18$ on birdseed being sold for $\$ 0.91 / \mathrm{lb}$. How much birdseed did she buy?
A) 25 lb 6 oz
B) 24 lb 6 oz
C) 20 lb 4 oz
D) 24 lb 7 oz
9. Three-bean salad is sold for $\$ 1.16 / 100 \mathrm{~g}$ at the deli. What would be the price for a large, $0.9-\mathrm{kg}$ container of salad?
A) $\$ 20.88$
B) $\$ 5.22$
C) $\$ 11.78$
D) $\$ 10.44$
10. Iwana Bestrong can bench press 270 lb at the gym. What is this weight in kilograms?
A) 127.8 kg
B) 135.0 kg
C) 102.5 kg
D) 122.7 kg
11. Peaches from the Okanagan, BC, are shipped to the USA. If their cost in Canada is $\$ 4.46 / \mathrm{kg}$, what will their cost be per pound in the United States?
A) $\$ 1.62 / \mathrm{lb}$
B) $\$ 2.23 / \mathrm{lb}$
C) $\$ 2.03 / \mathrm{lb}$
D) $\$ 2.43 / \mathrm{lb}$
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
B) 2.3 tonnes
C) 3.5 tonnes
D) 1.8 tonnes
13. How many bushels of corn are there in 285 tonnes? The conversion factor is $11.065 \mathrm{bu} / \mathrm{t}$.
A) 3439 bu
B) 26 bu
C) 28 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 $375 \mathrm{~kg} / \mathrm{cord}$, how much will he spend on firewood?
A) $\$ 157.52$
B) $\$ 143.20$
C) $\$ 114.56$
D) $\$ 100.24$
15. A diving platform at a public swimming pool has a maximum load of 300 lb . How many $40-\mathrm{kg}$ children can stand on the platform?
A) 1
B) 4
C) 6
D) 3

## Short Response (6 Marks)

Show ALL your work in the space provided and put the solution in the blank.
a) $8^{\circ} \mathrm{C}=$ $\qquad$ ${ }^{\circ} \mathrm{F}$
b) $475^{\circ} \mathrm{F}=$ $\qquad$ ${ }^{\circ} \mathrm{C}$
c) $166 \mathrm{oz}=$ $\qquad$ lbs $\qquad$ oz
d) $2 \mathrm{~kg}=$ $\qquad$ oz
e) $98 \mathrm{~kg}=$ $\qquad$ lbs
f) $2.5 \mathrm{t}=$ $\qquad$ lbs

1. 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?

## Weight $=$

$\qquad$
2. Pat's fishing license allows him to catch up to 20 pounds of smallmouth bass in a particular lake. He catches 4 fish weighing: $12 \mathrm{lb} 3 \mathrm{oz}, 2 \mathrm{lb} 15 \mathrm{oz}, 7 \mathrm{lb} 1 \mathrm{oz}$, and 10 oz .
a) What is the total weight (in pounds and ounces) of the fish Pat caught?

Weight $=\ldots$ lbs $\quad$ oz
b) Pat needs to throw back one fish to remain under his limit. Which fish should he throw back in order to get his maximum legal weight?

Size of the Fish = $\qquad$
3. Your favourite gummy candies are being sold for $\$ 3.00$ for a package that weighs 12 ounces. Another option is to buy them in bulk for $\$ 4.32 /$ pound. Which of these choices would be the best deal and how much do you save per ounce?

Best Option: $\qquad$ Money Saved / Ounce = \$ $\qquad$
4. The conversion factor for iceberg lettuce is $60.35 \mathrm{bu} / \mathrm{t}$. What would be the weight of 9 bushels, in kilograms?
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5. Your SI unit candy thermometer displays a temperature of $60^{\circ} \mathrm{C}$ in the fudge you are cooking. Your cookbook says the fudge batter must be heated to exactly $175^{\circ} \mathrm{F}$.
a) How many degrees Celsius away from $175^{\circ} \mathrm{F}$ is the mixture?

## Temperature $=$

$\qquad$
b) Is your mixture above or below this temperature?

Circle: ABOVE / BELOW
6. An elevator has a maximum capacity of 1350 lb . Charlie weighs 245 lb and he has 25 pallets of paper to deliver in the building. Each pallet weighs 62 kg .
a) If Charlie always rides the elevator with his paper deliveries, how much remaining capacity does the elevator have in kilograms?

## Remaining Capacity =

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b) How many pallets at a time can Charlie load into the elevator? He cannot load partial pallets.

## Number of Pallets =

$\qquad$
c) How many trips will Charlie make to deliver all the paper?

## Number of Trips =

$\qquad$
7. There are 10 containers packed with peanuts. Each container measures 2.5 feet by 4 feet by 1.5 feet.
a) How many cubic inches of peanuts are there in total?
Volume =
$\qquad$
b) If a bushel is 2250 cubic inches, how many bushels of peanuts are there in total?
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