

Name: _____

Date: _____

Math 3B Semester 1 Midterm

Solve the following problems! Show your work!

1. Add/subtract in compound units.

(a) $2\text{ m } 95\text{ cm} + 2\text{ m } 45\text{ cm} = \underline{\hspace{1cm}}\text{ m } \underline{\hspace{1cm}}\text{ cm}$

(b) $7\text{ km } 960\text{ m} + 2\text{ km } 240\text{ m} = \underline{\hspace{1cm}}\text{ km } \underline{\hspace{1cm}}\text{ m}$

(c) $12\text{ yd } 2\text{ ft} - 4\text{ yd } 1\text{ ft} = \underline{\hspace{1cm}}\text{ yd } \underline{\hspace{1cm}}\text{ ft}$

(d) $6\text{ ft } 3\text{ in.} - 2\text{ ft } 8\text{ in.} = \underline{\hspace{1cm}}\text{ ft } \underline{\hspace{1cm}}\text{ in.}$

(e) $9\text{ km} - 4\text{ km } 300\text{ m} = \underline{\hspace{1cm}}\text{ km } \underline{\hspace{1cm}}\text{ m}$

2. Put $>$, $<$, or $=$ in the circles.

(a) $4\text{ L} \bigcirc 400\text{ mL}$

(b) $100\text{ cm} \bigcirc 1\text{ km}$

(c) $1\text{ yard} \bigcirc 36\text{ inches}$

3. Add/subtract in compound units.

(a) $12\text{ lb} - 8\text{ lb } 2\text{ oz} = \underline{\hspace{1cm}}\text{ lb } \underline{\hspace{1cm}}\text{ oz}$

(b) $3\text{ kg } 900\text{ g} + 2\text{ kg } 100\text{ g} = \underline{\hspace{1cm}}\text{ kg } \underline{\hspace{1cm}}\text{ g}$

(c) $4\text{ kg } 25\text{ g} - 2\text{ kg } 230\text{ g} = \underline{\hspace{1cm}}\text{ kg } \underline{\hspace{1cm}}\text{ g}$

(d) $5\text{ lb } 11\text{ oz} + 3\text{ lb } 11\text{ oz} = \underline{\hspace{1cm}}\text{ lb } \underline{\hspace{1cm}}\text{ oz}$

4. Lindsey gave each of her friends 7 cupcakes. She gave away 140 cupcakes altogether. How many friends did she give the cupcakes to?

5. There were 150 bulbs in a box. 6 of them were broken. The rest were packed into boxes of 4 bulbs each. How many boxes of bulbs were there?

6. The total weight of a bottle of cooking oil and 2 bags of sugar is 5 kg 50 g. The weight of each bag of sugar is 2 kg.

(a) How much does two bags of sugar weigh?

(b) Find the weight of the bottle of cooking oil.

Name: _____

Date: _____

7. A piece of blue ribbon is 4 ft 7 in. long and a piece of red ribbon is 1 ft 10 in. long. Find the total length of the ribbons.
8. A tank can hold 8 buckets of water. The capacity of the bucket is 6 liters. What is the capacity of the tank?
9. The total length of the Monorail route on Sentosa Island is about 6 km 400 m. Write the length in meters.
10. A stick of butter weighs 7 oz.
The total weight of 4 sticks of butter is _____ lb _____ oz
11. Jackie had 9 L 350 mL of paint. She used 1 L 220 mL to paint her room and 2 L 450 mL to paint her kitchen. How much paint does she have left?

Extra Credit

12. A melon is 5 times as heavy as an orange. If the orange weighs 450 g, find the difference in weight between the orange and the melon. Give your answer in kilograms and grams.
13. The total weight of a football and 10 tennis balls is 1 kg. If the weight of each tennis ball is 60 g, find the weight of the football.