

2016 Math 3B Midterm Examination

Name: _____ Score: _____

1. *Mental Calculation* (2 points $\times 8 = 16$ points)

$59 + 28 =$

$34 + 76 =$

$85 - 27 =$

$90 - 41 =$

$200 \times 5 =$

$700 \times 4 =$

$640 \div 8 =$

$4200 \div 7 =$

2. *Units of Length* (2 points each $\times 12 = 24$ points)

$2 \text{ m } 58 \text{ cm} = \underline{\hspace{2cm}} \text{ cm}$

$13 \text{ m } 20 \text{ cm} = \underline{\hspace{2cm}} \text{ cm}$

$4 \text{ km } 206 \text{ m} = \underline{\hspace{2cm}} \text{ m}$

$5 \text{ km } 6 \text{ m} = \underline{\hspace{2cm}} \text{ m}$

$4 \text{ ft} = \underline{\hspace{2cm}} \text{ in}$

$2 \text{ ft } 11 \text{ in} = \underline{\hspace{2cm}} \text{ in}$

$3 \text{ yd } 2 \text{ ft} = \underline{\hspace{2cm}} \text{ ft}$

$5 \text{ yd } 1 \text{ ft} = \underline{\hspace{2cm}} \text{ ft}$

$208 \text{ cm} = \underline{\hspace{2cm}} \text{ m } \underline{\hspace{2cm}} \text{ cm}$

$520 \text{ cm} = \underline{\hspace{2cm}} \text{ m } \underline{\hspace{2cm}} \text{ cm}$

$8048 \text{ m} = \underline{\hspace{2cm}} \text{ km } \underline{\hspace{2cm}} \text{ m}$

$1200 \text{ m} = \underline{\hspace{2cm}} \text{ km } \underline{\hspace{2cm}} \text{ m}$

3. *Units of Weight* (2 points each $\times 8 = 16$ points)

$3 \text{ lb} = \underline{\hspace{2cm}} \text{ oz}$

$2 \text{ lb } 7 \text{ oz} = \underline{\hspace{2cm}} \text{ oz}$

$2 \text{ kg } 300\text{g} = \underline{\hspace{2cm}} \text{ g}$

$50 \text{ kg } 60\text{g} = \underline{\hspace{2cm}} \text{ g}$

$18 \text{ oz} = \underline{\hspace{2cm}} \text{ lb } \underline{\hspace{2cm}} \text{ oz}$

$56 \text{ oz} = \underline{\hspace{2cm}} \text{ lb } \underline{\hspace{2cm}} \text{ oz}$

$2500 \text{ g} = \underline{\hspace{2cm}} \text{ kg } \underline{\hspace{2cm}} \text{ g}$

$5060 \text{ g} = \underline{\hspace{2cm}} \text{ kg } \underline{\hspace{2cm}} \text{ g}$

4. *Units of Capacity* (2 points each $\times 4 = 8$ points)

$3 \text{ l } 320 \text{ mL} = \underline{\hspace{2cm}} \text{ mL}$

$5 \text{ l } 82 \text{ mL} = \underline{\hspace{2cm}} \text{ mL}$

$3520 \text{ mL} = \underline{\hspace{2cm}} \text{ l } \underline{\hspace{2cm}} \text{ mL}$

$2026 \text{ mL} = \underline{\hspace{2cm}} \text{ l } \underline{\hspace{2cm}} \text{ mL}$

5. Write the missing numbers (2 points \times 6 = 12 points)

$$3 \text{ km } 490 \text{ m} + 3 \text{ km } 230 \text{ m} = \underline{\hspace{1cm}} \text{ km } \underline{\hspace{1cm}} \text{ m}$$

$$2 \text{ ft } 7 \text{ in} + 1 \text{ ft } 3 \text{ in} = \underline{\hspace{1cm}} \text{ ft } \underline{\hspace{1cm}} \text{ in}$$

$$2 \text{ l } 550 \text{ mL} + 630 \text{ mL} = \underline{\hspace{1cm}} \text{ l } \underline{\hspace{1cm}} \text{ mL}$$

$$3 \text{ m } 40 \text{ cm} - 68 \text{ cm} = \underline{\hspace{1cm}} \text{ m } \underline{\hspace{1cm}} \text{ cm}$$

$$2 \text{ yd } 1 \text{ ft} - 2 \text{ ft} = \underline{\hspace{1cm}} \text{ yd } \underline{\hspace{1cm}} \text{ ft}$$

$$3 \text{ lb } 6 \text{ oz} - 1 \text{ lb } 12 \text{ oz} = \underline{\hspace{1cm}} \text{ lb } \underline{\hspace{1cm}} \text{ oz}$$

6. Word Problems (24 points)

(1) John weighs 34kg 600g. He is 800g heavier than Tom. What is Tom's weight? (5 points)

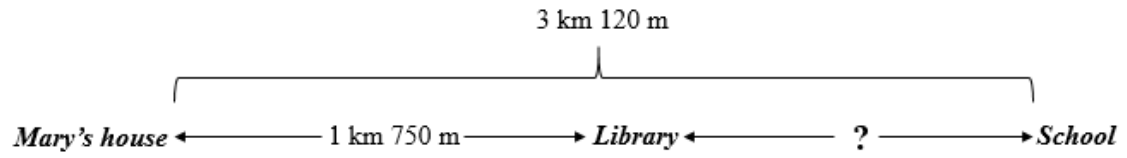
(2) A pumpkin weighs 8 lb 3oz. A watermelon weighs 9lb 12 oz.

a. What is the total weight of the pumpkin and the watermelon? (5 points)

b. What's the difference in weights between the pumpkin and the watermelon? (5 points)

(3) Mrs. Chen fills a container with 9 cups of orange juice. Each cup contains 200ml of orange juice. What is the total capacity of the container? (4 points)

(4) The distance between *Mary's house* and *school* is 3 km 120 m. The distance between the *library* and *Mary's house* is 1 km 750 m. What is the distance between the library and the school? (5 points)



Extra Points

Name: _____ Score: _____

Find the value of the following (4 points $\times 4 = 16$ points)

a. $1001 + 1002 + 1003 + 1004 + 1005 + 1006 + 1007 + 1008 + 1009 =$

b. $1000 - 101 - 102 - 103 - 104 - 105 - 106 - 107 - 108 - 109 =$

c. $1000 \times 100 \times 10 \times 1 \div 10 \div 100 \div 1000 =$

d. The total weight of 2 apples and 5 bananas is 1kg. Each banana weighs 80g. What's the weight of each apple?