

## Chapter 18: Units of measurement

### 18.1: Units of Length

i. Convert Units of Length

A)  $6 \text{ cm} = \underline{\hspace{2cm}} \text{ mm}$

B)  $1 \text{ m} = \underline{\hspace{2cm}} \text{ cm}$

C)  $120 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$

D)  $90 \text{ cm} = \underline{\hspace{2cm}} \text{ mm}$

E)  $652 \text{ mm} = \underline{\hspace{2cm}} \text{ cm}$

F)  $3450 \text{ mm} = \underline{\hspace{2cm}} \text{ m}$

ii. Which is the longest? Circle the largest amount in each box.

1 m	1 m	100 m	10 m
1 cm	200 cm	500 cm	500 cm
10 mm	300 mm	50 mm	800 mm

iii. Use  $>$ ,  $<$ , or  $=$  to compare the amounts.

A)  $1 \text{ m} \quad \square \quad 10 \text{ cm}$

B)  $20 \text{ mm} \quad \square \quad 1 \text{ cm}$

C)  $90 \text{ cm} \quad \square \quad 1 \text{ m}$

D)  $500 \text{ cm} \quad \square \quad 3 \text{ m}$

E)  $3 \text{ m} \quad \square \quad 40 \text{ cm}$

F) 10 mm  1 cm

G) 20 cm  2000mm

iv. Choose the correct answer.

1. Which is a better estimate for the length of a pencil?

A. 18 cm      B. 18 mm      C. 18 m

2. Which is a better estimate for the length of a diving board?

A. 20 cm      B. 2 m      C. 2 mm

3. Which is a better estimate for the height of an adult?

A. 1.6 m      B. 1.6 cm      C. 160 mm

4. Which tool would you use to find out the length of a book?

A. Ruler      B. Watch      C. Calendar

5. Ali's pencil is 13cm long. Mary's pencil is 0.14m long. Jenny's pencil is 150 mm long. Who has the longest pencil?

A. Ali      B. Mary      C. Jenny

6. Which of the following is true?

- A.  $1.2 \text{ m} = 120 \text{ mm}$
- B.  $134 \text{ cm} = 1.34 \text{ m}$
- C.  $323 \text{ mm} = 3.23 \text{ cm}$
- D.  $500 \text{ cm} = 50 \text{ m}$

7. The blue envelope is 14 cm long. The red envelope is 1 cm longer than the blue envelope, while the white envelope is 2cm longer than the red envelope. What is the length, in mm, of the white envelope?

- A. 140mm
- B. 17 mm
- C. 170 mm
- D. 14 mm

## 18.2: Units of Weight

i. Convert Units of Weight

- A)  $1 \text{ kg} = \underline{\hspace{2cm}} \text{ g}$
- B)  $6500 \text{ g} = \underline{\hspace{2cm}} \text{ kg}$
- C)  $1.25 \text{ kg} = \underline{\hspace{2cm}} \text{ g}$
- D)  $21 \text{ kg} = \underline{\hspace{2cm}} \text{ g}$
- E)  $2320 \text{ g} = \underline{\hspace{2cm}} \text{ kg}$
- F)  $0.3 \text{ kg} = \underline{\hspace{2cm}} \text{ g}$

- ii. Which is the heaviest? Circle the largest amount in each box.

1.23 kg	0.1 kg	100 kg	23 g
123 g	200 g	500 g	0.23 g
1240 g	3 kg	5000 g	230 kg

- iii. Use  $>$ ,  $<$ , or  $=$  to compare the amounts.

- A) 1 kg  100 g
- B) 20 g  0.1 kg
- C) 500 g  1 kg
- D) 10 kg  10000 g
- E) 135 g  0.43 kg
- F) 20 kg  1200 g
- G) 2000  g 2 kg

- iv. Choose the correct answer.

1. Which is a better estimate for the weight of a woman?  
 A. 50kg      B. 550 g      C. 5.5 kg

2. Which is a better estimate for the weight of an egg?  
A. 60 g      B. 6 kg      C. 0.5 kg
3. Which is a better estimate for the weight of an almond?  
A. 2kg      B. 2g      C. 200 kg
4. Which tool would you use to find out your own weight?  
A. Ruler      B. Stopwatch      C. Bathroom scale
5. Which of the following is true?  
A. 12 kg = 120 g  
B. 310 g = 31 kg  
C. 5.4 kg = 5400 g  
D. 100 g = 10 kg
6. The red storybook weighs 2.4 kg. The blue storybook weighs 2240 g. Which one is lighter?  
A. Red storybook      B. Blue storybook
7. Jerry weights 30 kg. His sister, Tina is heavier than him. Which of the following could be Tina's weight?  
A. 25 kg  
B. 2900 g  
C. 3200g  
D. 3.2kg

### 18.3: Units of Volume

i. Convert Units of Volume

- A)  $3 \ell = \underline{\hspace{2cm}} \text{ ml}$   
 B)  $600 \text{ ml} = \underline{\hspace{2cm}} \ell$   
 C)  $1.25 \ell = \underline{\hspace{2cm}} \text{ ml}$   
 D)  $2100 \text{ ml} = \underline{\hspace{2cm}} \ell$   
 E)  $234 \text{ ml} = \underline{\hspace{2cm}} \ell$   
 F)  $0.9 \ell = \underline{\hspace{2cm}} \text{ ml}$

ii. Circle the largest amount in each box.

1 $\ell$	0.9 $\ell$	0.1 $\ell$	23 $\text{ml}$
1350 $\text{ml}$	900 $\text{ml}$	500 $\text{ml}$	0.23 $\ell$
120 $\text{ml}$	3 $\ell$	5000 $\ell$	230 $\ell$

iii. Use  $>$ ,  $<$ , or  $=$  to compare the amounts.

- A) 100  $\text{ml}$   1  $\ell$   
 B) 340  $\text{ml}$   0.34  $\ell$   
 C) 500  $\text{ml}$   0.5  $\ell$   
 D) 0.2  $\ell$   20  $\text{ml}$   
 E) 13  $\ell$   780  $\text{ml}$

F) 2 ℓ  2000 ml

G) 1.4 ℓ  2 ml

iv. Choose the correct answer.

1. Which is a better estimate for the volume of a cup of milk?

A. 1750 ml                      B. 175 ml                      C. 1.75 ml

2. Which is a better estimate for the volume of a dose of cough syrup?

A. 14 ml                      B. 1.4 ℓ                      C. 140 ml

3. Which is a better estimate for the volume of an orange juice carton?

A. 2 ℓ                      B. 2 ml                      C. 2000 ℓ

4. Which tool would you use to measure the volume of milk needed to bake a cake?

A. Measuring cup    B. Stopwatch    C. Bathroom scale

5. Which of the following is true?

A. 12 ℓ = 120 ml

B. 100 ml = 1 ℓ

C. 2300 ml = 2.3 ℓ

D. 0.14 ℓ = 14 ml

6. James wants to bake some cookies. According to the recipe, he needs 200 mL water and 300 mL milk. What is the total volume of water and milk, in L, that will be used?
- A. 5 L
  - B. 500 L
  - C. 0.5 L
  - D. 0.05 L

