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Ain Jaloot School
2020-2021



Chapter 14



Measurement and metric unit





LESSON 1 ... Convert units of time

(الهدف) outcome: I understand units of time and able to convert them

1 year = 365 day	1 month = 30 day	1 day = 24 hour	1 hour = 3.600 sec
1 year = 52 weeks	1 month = 4 weeks	1 hour = 60 min	 
1 year = 12 months	1 week = 7 day	1 min = 60 sec	

Q1 : **choose** the correct answer :

5) Convert 3 weeks = 3×7 d :

- a) 21 b) 7 c) 14

3) Convert 2 years = 2×12 mo

- a) 365 b) 24 c) 12

6) Convert 4 min = 4×60 s :

- a) 60 b) 180 c) 240

4) Convert $2 \frac{1}{2}$ h = $60 + 60 + 30$ min

- a) 120 b) 150 c) 180

Q2 : **Compare** using <, >, =:

~~300s~~
5 min **>** 250 s

1 min = 60 s
5 min = ... s
 $5 \times 60 = 300s$

36 mo **<** ~~48 mo~~ 4 y

1 y = 12 mo
4 y = ... mo
 $4 \times 12 = 48 mo$

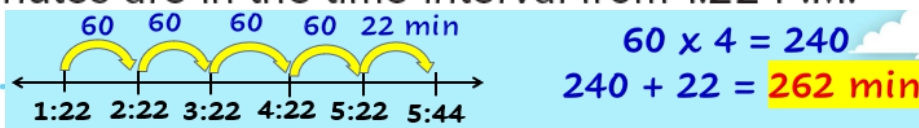
14 d **=** ~~2 wk~~ ^{14 d}

1 wk = 7 d
 $2 wk = 2 \times 7 = 14 d$

Q3 : **Problem solving:**

1) How many minutes are in the time interval from 1:22 P.M.

to 5:44 P.M.?



2) How many minutes are in the time interval from 7:09 A.M.

to 10:36 A.M.?



Hassan's book log shows that he read a total of $4 \frac{1}{4}$ hours last month. How many minutes is that?

(A) 240 minutes

(C) 255 minutes

(B) 250 minutes

(D) 270 minutes

$4 \times 60 = 240 \text{ min}$

$\frac{1}{4} \times 60 = 15 \text{ min}$

$240 + 15 = 255 \text{ min}$

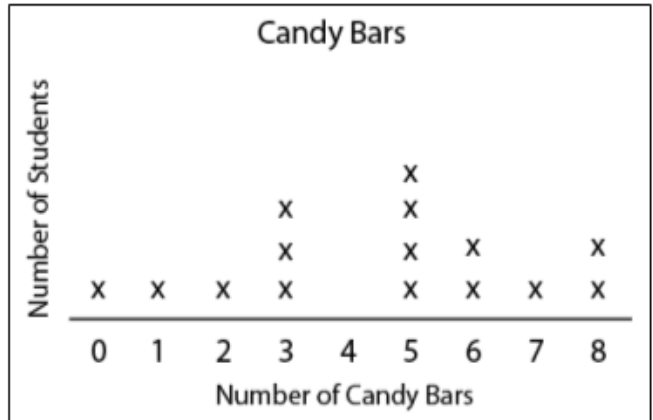


LESSON 2 ... Line Plot

(الهدف) Outcomes: Represent measurements on a line plot

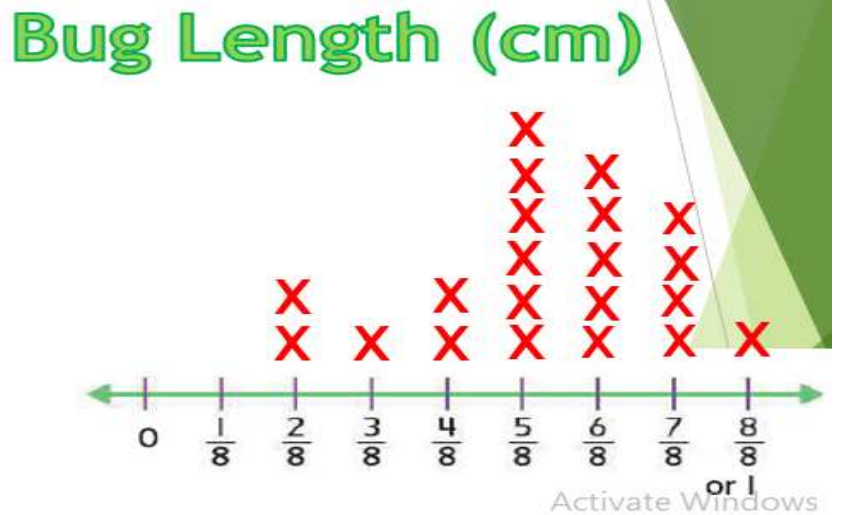
Q1 : Choose the correct answer :

- 1) How many student took 5 candy bar:
 - a) 3
 - b) 4**
 - c) 5
- 2) How many student took 1 candy bar:
 - a) 1**
 - b) 2
 - c) 0
- 7) How many student altogether :
 - a) 5
 - b) 10
 - c) 15**
- 8) How many candy bars are taken by 3 student:
 - a) 3**
 - b) 4
 - c) 5
- 9) How many student took 6 and more candy bar: **2+1+2=5**
 - a) 4
 - b) 5**
 - c) 6



Q2 : Draw line plot :

Bug Length	
$\frac{1}{8}$ cm	
$\frac{2}{8}$ cm	
$\frac{3}{8}$ cm	
$\frac{4}{8}$ cm	
$\frac{5}{8}$ cm	
$\frac{6}{8}$ cm	
$\frac{7}{8}$ cm	
$\frac{8}{8}$ cm	



- 1) what is the title of line plot ? **Bug Length**
- 2) Which bug length was the most popular ? $\frac{5}{8}$
- 3) Which bug length was the least popular ? $\frac{3}{8}, \frac{8}{8}$
- 4) How many bug measure $\frac{5}{8}$ and $\frac{6}{8}$ together ? **6+5=11**
- 5) How many bug measure $\frac{1}{8}$? **0**



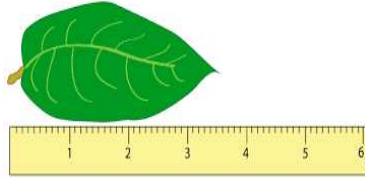
LESSON 4 ... metric units of length

(الهدف) Outcomes: estimate each length in mm , cm , m , km

A millimeter (mm)



A centimeter (cm)



A meter (m) is



A kilometer (km)



Q1 : Find the best estimate of length :

Screw

A. 20 centimeters
B. 25 centimeters
C. 3 centimeters
D. 1 meter

Can of Beans

A. 120 centimeters
B. 2 meters
C. 2 kilometers
D. 10 centimeters

Key

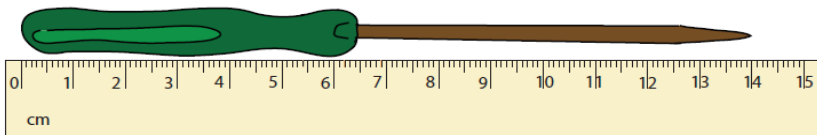
A. 5 centimeters
B. 2 meters
C. 15 centimeters
D. 150 centimeters

2 Liter of Soda

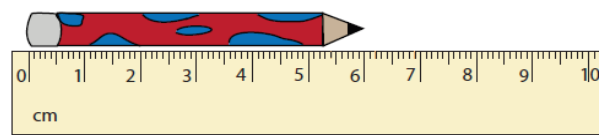
A. 3 centimeters
B. 30 centimeters
C. 1 meter
D. 2 kilometers

Strawberry

A. 5 centimeters
B. 25 centimeters
C. 15 centimeters
D. 1 meters

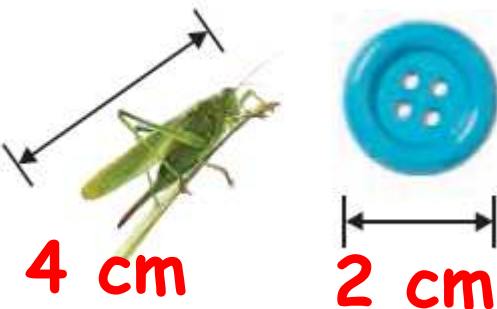
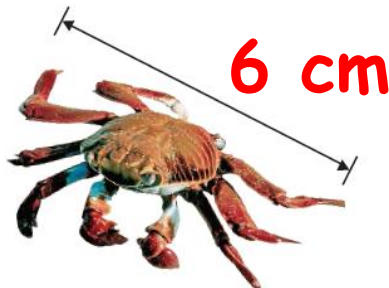


14 cm



6 cm

Q2 : Estimate the length:



Q3 : Choose the correct answer:

1) height of a cornstalk

- A. 2 mm
- B. 2 cm
- C. 2 m
- D. 2 km



2) length of an airport runway

- A. 5 mm
- B. 50 cm
- C. 5 m
- D. 5 km



LESSON 5 ... Capacity سعة السائل

(الهدف) Outcomes: units of liquid (L and ml)

Answer



Small amount for capacity -mL-



350ml



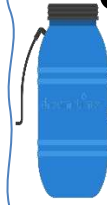
500ml

1 L = 1,000 ml

6L = 6,000 ml

18 L = 18,000 ml

Big amount for capacity -L-



50 L



2 L

Q1 : Circle the more reasonable estimate for each mass :



220ml

220L



38 ml

38 L



1 ml

1 L



1 ml

1 L



150 ml

150 L

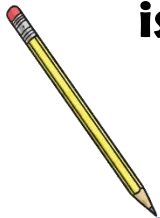


30 ml

30 L

LESSON 6 ... Mass الكتلة (الهدف) Outcomes: units of mass(Kg and g)

Small unit of mass is -g-

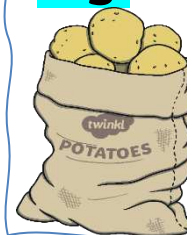


1 Kg = 1,000 g

4Kg = 4,000 g

12 Kg = 12,000 g

Big unit of mass is -Kg-



Q1 : Circle the more reasonable estimate for each mass :



20 g

20 kg



30 g

30 kg



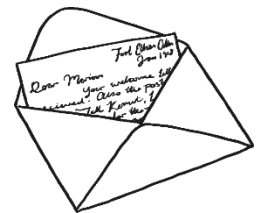
25 g

25 kg



18 g

18 kg



3 g

3 kg



LESSON 8 ... Convert metric unit التحويلات

(الهدف) Outcomes: I can multiply to convert from big unit to small unit

Metric Units of Capacity

1 liter (L) = 1,000 milliliters (mL)

Metric Units of Mass

1 kilogram (kg) = 1,000 grams (g)

We are learning to convert metric units.

Km to m ($\times 1000$)

m to cm ($\times 100$)

cm to mm ($\times 10$)

m to mm ($\times 1000$)

Q1 : Choose the correct answer :

10) Convert 7 kg = g :

ml

a) 7000 b) 700 c) 70

5) Convert 12 L =

a) 1,200 **b) 12,000** c) 120

11) Convert 60 km = m :

a) 6000 **b) 60,000** c) 600

6) Convert 4000 g = kg

a) 40 b) 400 **c) 4**

12) Convert 4 m = mm :

a) 40 **b) 4000** c) 40

7) Convert 15 cm = mm

a) 1,500 b) 15,000 **c) 150**

13) Convert 200 m = cm :

a) 2000 **b) 20,000** c) 200

8) Convert 30 m = cm

a) 3000 b) 300 c) 3

Q2 : Problem solving :

1) Maysoun's house is 7 m tall. How tall is the house in centimeters?

$$7 \times 100 = 700 \text{ cm}$$

2) Adnan's dad is running a race that is 6 km long. How many meters is that race?

$$6 \times 1000 = 6000 \text{ m}$$

3) Abdulkarim has 5 L of water. How many milliliters of water does he have?

$$5 \times 1000 = 5000 \text{ ml}$$

Test Practice

12. Which is equivalent to 300 m?

$$300 \times 100 = 30,000 \text{ cm}$$

(A) 30 km

(C) 30,000 cm

(B) 3 km

(D) 3,000 cm



LESSON 9... Solve measurement problem

(الهدف) outcome: I will solve problem using convert metric

Metric Units of Capacity

1 liter (L) = 1,000 milliliters (mL)

Metric Units of Mass

1 kilogram (kg) = 1,000 grams (g)

Metric Units of Length

1 centimeter (cm) = 10 millimeters (mm)

1 meter (m) = 100 centimeters (cm)

1 kilometer (km) = 1,000 meters (m)

Q1 : Problem solving:

- 1) Faris poured **500 mL** of lemon juice and **2 L** of water in a pitcher to make lemonade. How many milliliters of lemon juice and water did he pour into the pitcher in all? **+**

$$2L = 2000 \text{ ml}$$

$$2000 + 500 = 2,500 \text{ ml}$$

- 2) A bag of potatoes has a mass of **4 kg**. Some potatoes are taken out. The mass is now **2,305 g**. What is the mass of the potatoes in grams that were taken out of the bag?

$$\begin{array}{r} 9 \quad 9 \\ 3 \quad 10 \quad 10 \\ 4,000 \\ - 2,305 \\ \hline 1,695 \end{array}$$

$$4 \text{ kg} = 4000 \text{ g}$$

$$4000 - 2,305 = 1,695 \text{ g}$$

- 3) One insect is **47 mm** long. Another insect is **3 cm** long. What is the total length in millimeters of the insects? **+**

$$3 \text{ cm} = 30 \text{ mm}$$

$$30 + 47 = 77 \text{ mm}$$

- 4) A table has a mass of **7 kg**. A chair has a mass of **4,048 g**. What is the total mass in grams of the table and the chair? **+**

$$7 \text{ kg} = 7000 \text{ g}$$

$$7000 + 4048 = 11,048 \text{ g}$$

Test Practice

7. Saeed stacked 17 kg of firewood on Saturday and 15 kg of firewood on Sunday. How many more grams of firewood did he stack on Saturday?

$$17,000 - 15,000 = 2,000$$

(A) 2,000 g

(C) 20,000 g

(B) 3,200 g

(D) 32,000 g