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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 year = 52 **weeks**

1 year = 12 **months**

1 month = 30 **day**

1 month = 4 **weeks**

1 week = 7 **day**

1 day = 24 **hour**

1 hour = 60 **min**

1 min = 60 **sec**

1 hour = 3.600 **sec**



Q1 : choose the correct answer :

5) Convert 3 weeks = d :

a) 21 b) 7 c) 14

3) Convert 2 years = mo

a) 365 b) 24 c) 12

6) Convert 4 min = s :

a) 60 b) 180 c) 240

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

a) 120 b) 150 c) 180

Q2 : Compare using <, >, =:

5 min



250 s

36 mo



4 y

14 d



2 wk

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

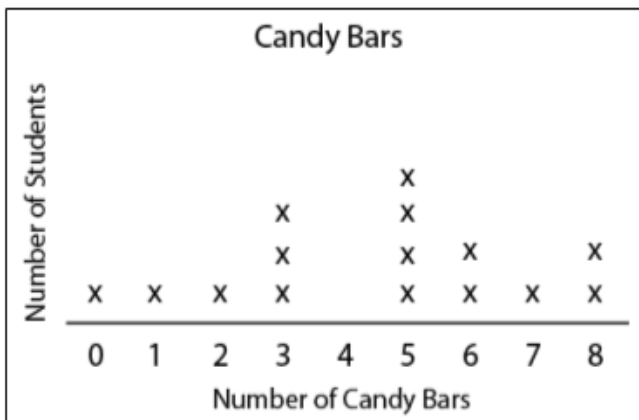


LESSON 2 ... Line Plot

(الهدف) Outcomes: Represent measurements on a line plot

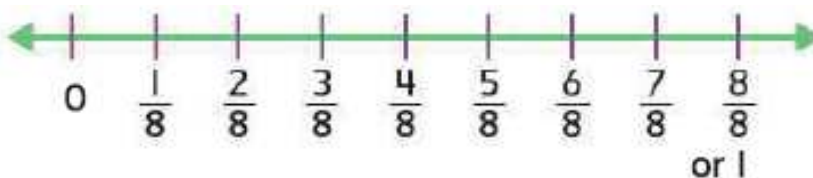
Q1 : **Choose** the correct answer :

- 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:
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 ?
- 2) Which bug length was **the most** popular ?
- 3) Which bug length was **the least** popular ?
- 4) How many bug measure $\frac{5}{8}$ and $\frac{6}{8}$ together ?
- 5) How many bug measure $\frac{1}{8}$?



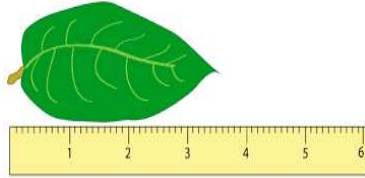
LESSON 4 ... metric units of length

(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

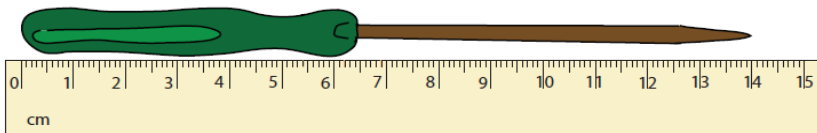
A. 5 centimeters
B. 2 meters
C. 15 centimeters
D. 150 centimeters

2 Liter of Soda

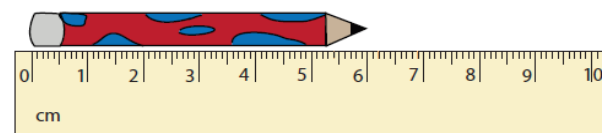
A. 3 centimeters
B. 30 centimeters
C. 1 meter
D. 2 kilometers

Strawberry

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

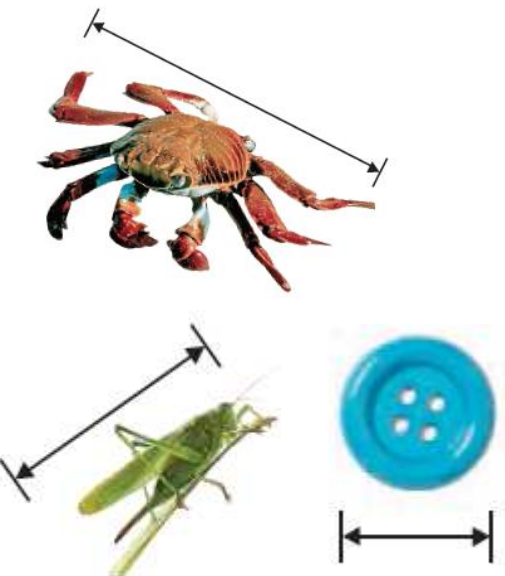


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Q2 : Estimate the length:



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)



Small amount for capacity -mL-



350ml



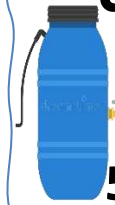
500ml

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

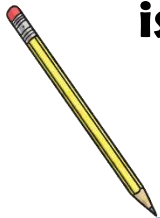


30 ml

30 L

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

Small unit of mass is -g-

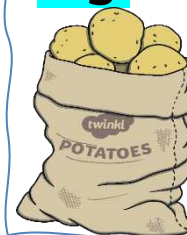


1 Kg = 1,000 g

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



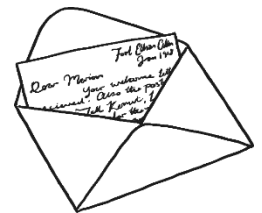
25 g

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

11) Convert 60 km = m :

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

12) Convert 4 m = mm :

- a) 40 b) 4000 c) 40

13) Convert 200 m = cm :

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

5) Convert 12 L =

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

6) Convert 4000 g = kg

- a) 40 b) 400 c) 4

7) Convert 15 cm = mm

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

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?

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

.....

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

.....

Test Practice

12. Which is equivalent to 300 m?

- (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 Length
1 centimeter (cm) = 10 millimeters (mm)
1 meter (m) = 100 centimeters (cm)
1 kilometer (km) = 1,000 meters (m)

Metric Units of Mass
1 kilogram (kg) = 1,000 grams (g)

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?

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.....

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?

.....

.....

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

.....

.....

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?

.....

.....

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?

- (A) 2,000 g
- (C) 20,000 g
- (B) 3,200 g
- (D) 32,000 g