LESSON 1 .. **Display Measurement Data on a Line Plot**

(الهدف) Outcomes: (**Make a** <u>**line plot**</u> **+ Find** <u>**fair share**</u>)

<u>Fair share</u> : total of fractions (+) then divide (÷) by whole number .

Make a line plot of the measurements in each table. Then find the fair share.

2.

Yarn Lengths (m)					
$\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{3}$
$\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{4}$

Fair share : ………………….

3.

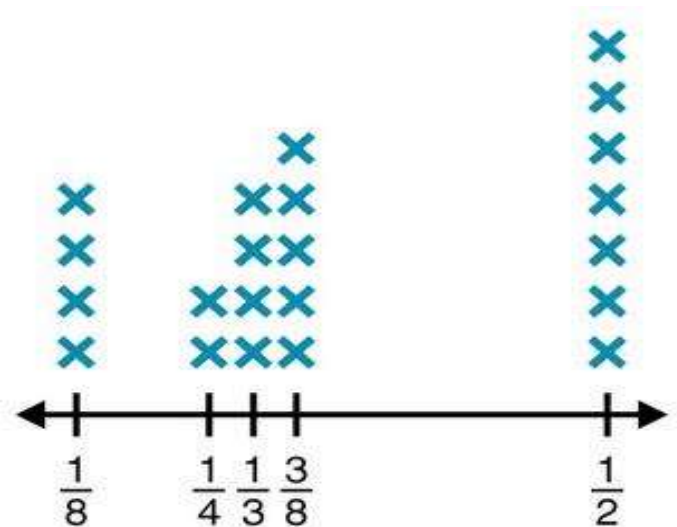| Iced Tea (L)								
$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{8}$	$\frac{1}{2}$

Fair share : ………………….

Q2 : Given the set of data .. Find the fair share?

a) $\frac{1}{8} , \frac{1}{8} , \frac{1}{8} , \frac{1}{8} , \frac{1}{2} , \frac{1}{2} , \frac{1}{2}$
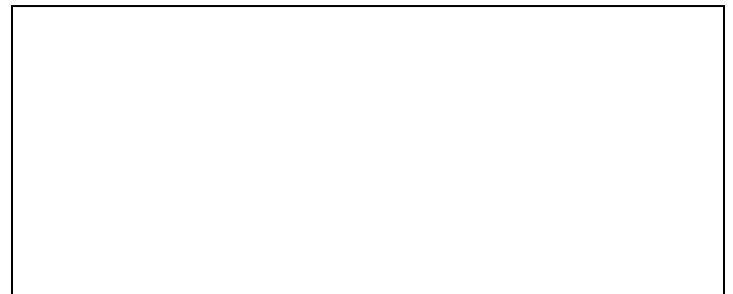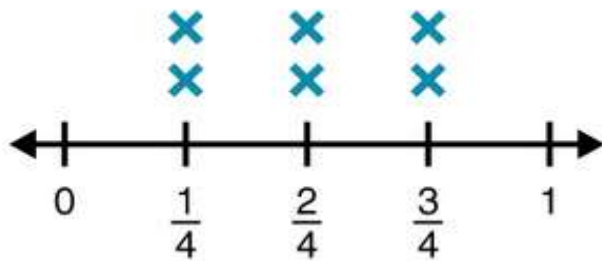
b) $\frac{1}{2} , \frac{1}{2} , \frac{3}{2} , \frac{3}{2}$

Q3 : On a line plot … find :

1. Which value occurred the <u>most</u> in the given line plot ? ………………

2. How many times does the fraction $\frac{1}{3}$ appear on the line plot ? …………..
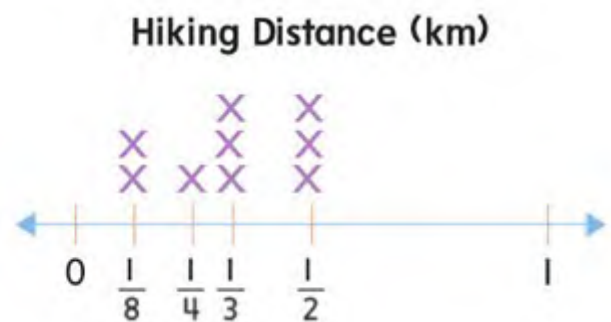
3. How many <u>total</u> number of x ? …….
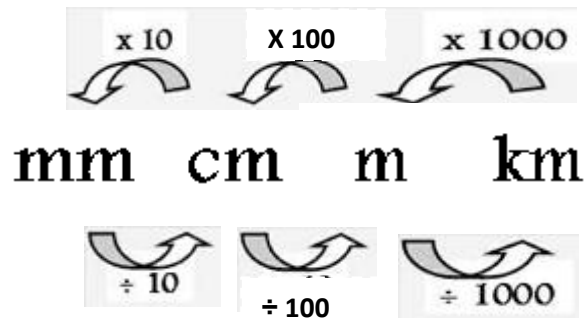

Q4 : Use the line plot to find the fair share ..

Test Practice

Which is the correct fair share for the measurements shown in the line plot?

Ⓐ $\frac{1}{6}$ km   Ⓒ $\frac{1}{2}$ km

Ⓑ $\frac{1}{3}$ km   Ⓓ $\frac{2}{3}$ km

Hiking Distance (km)

Grade 5 .. Term 3

LESSON **3** .. **Convert metric units of length**

(الهدف) Outcomes: **Convert (km , m , cm , mm) (10,100,1000)**

Length family

To convert from large unit to small unit (x)

x 10   X 100   x 1000

mm   cm   m   km

÷ 10   ÷ 100   ÷ 1000

Q 1: Complete:

1. **1 m = ……… cm**

2. **3 cm = …….. mm**

3. **600 mm = …….. cm**

4. **7000 mm = …….. m**

5. **40 m = …….. mm**

6. **10 km = ……. m**

7. **54000 m = ……. Km**

8. **4000 cm = …….. m**

9. **700 cm = ………… m**

10. **8500 mm = ………… m**

11. **700 cm = ………… m**

12. **2.71 m = …………mm**

13. **9.2 m = ………… cm**

14. **17.5 mm = ………. cm**

15. **0.509 km = ………. m**

16. **3 m = ………… km**

Complete. Use <, >, or = to make a true statement.

11. 30 cm $\bigcirc$ 300 mm   **12.** 4.8 km $\bigcirc$ 4,800 m   **13.** 25 mm $\bigcirc$ 3 cm

14. 9 km $\bigcirc$ 8,500 m   **15.** 1.5 m $\bigcirc$ 145 cm   **16.** 17 m $\bigcirc$ 116 cm

Q3 : problem solving :

1. When completed, a tunnel will be 1500 m long , what is this length in Kilometers ? …………………………………………….

2. Ahmed measured a line for his art project.. It is 600 millimeters long . So ,Ahmed's line for his project is ……………… centimeters

3. Amna's pencil was 13.5 centimeters long.

  Amna's pencil was …………………… millimeters long.

Test Practice

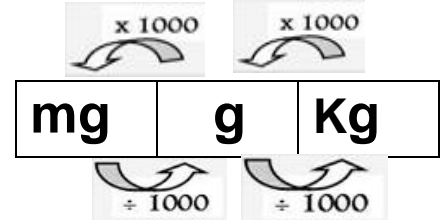**14.** Noura is reading a book. The book's thickness is 31 mm. Which is the correct thickness in centimeters?

Ⓐ 3.001 cm

Ⓑ 3.01 cm

Ⓒ 3.1 cm

Ⓓ 3.11 cm

Mass	للتحويل من الأكبر إلى الأصغر (نضرب)	x 1000	x 1000
الكتلة	للتحويل من الأصغر إلى الأكبر (نقسم)	mg	g	Kg

÷ 1000   ÷ 1000

Q 1: Complete:

1.   **2000 mg =......... g**   5. **80 g = ... mg**

2.   **0.75 kg = ... mg**   6. **6 kg = ... g**

3.   **3100 g = ... kg**   7. **0.05 kg = ... mg**

Compare. Use <, >, or = to make a true statement.

13. 2,300 mg $\bigcirc$ 2 g   14. 3 kg $\bigcirc$ 3,000 g   15. 4.5 kg $\bigcirc$ 4,050 g

Test Practice

11. For a science experiment, Huda measured a piece of metal that has a mass of 3,500 g. What is the mass of the metal in kilograms?
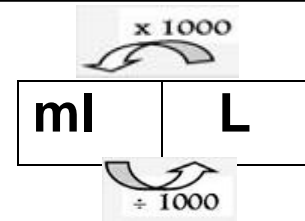
Ⓐ 0.35 kg   Ⓒ 35 kg

Ⓑ 3.5 kg   Ⓓ 350 kg

LESSON **6** .. Convert metric units of Capacity

(الهدف) Outcomes:　**Convert (L , ml) (1000)**

Capacity	للتحويل من الأكبر إلى الأصغر (نضرب)	x 1000
السعة (سوائل)	للتحويل من الأصغر إلى الأكبر (نقسم)	ml　|　L ÷ 1000

Q 1: Complete:

70L =......... ml　　　10 ml = ... L　　　1.2 L = ... ml

6.21 L =......... ml　　230 ml = ... L　　5000 ml = ... L

Compare. Use <, >, or = to make a true statement.

13. 2 L ◯ 1,000 mL　　**14.** 390 mL ◯ 0.39 L　　**15.** 82 L ◯ 825 mL

A dripping faucet wastes about 90 L of water every week. How many milliliters of water is this?

Alia measures the water in a container to be 2,732 mL. Ghaya measures the water in the same container to be 3 L. Circle the greater measurement.

2,732 mL　　　　　3 L