Distributing Line Plot Values

Name: _____

Solve each problem.

1) The line plot below shows the weight (in tons) of boxes on pallets.
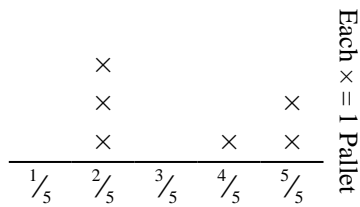
```
×
×                ×
×          ×     ×
―――――――――――――――――――――
1/5   2/5   3/5   4/5   5/5
```
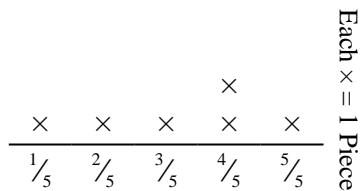Each × = 1 Pallet

If the weight were redistributed evenly, how much weight would be on each pallet?

2) The line plot below shows the weight (in kilograms) that each cabinet shelf is holding.

```
              ×
              ×
×      ×      ×
―――――――――――――――――
1/3    2/3    3/3
```
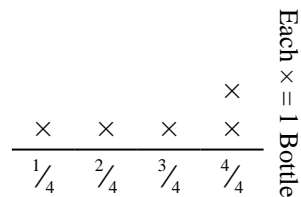Each × = 1 Shelf
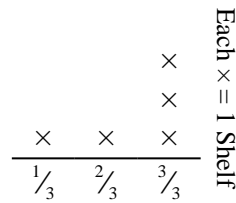
Find the amount of weight each shelf would have if the weight were redistributed equally.

3) Edward cut a rope into different lengths. The line plot below shows the length (in feet) of the cut pieces.

```
                  ×
×    ×    ×    ×    ×
―――――――――――――――――――――
1/5  2/5  3/5  4/5  5/5
```
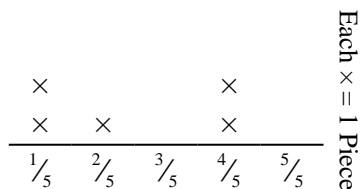Each × = 1 Piece

If he had cut the rope so each piece was the same length, how long would each piece be?

4) The line plot below shows the weight (in grams) of vitamin bottles.

```
                  ×
×    ×    ×    ×
―――――――――――――――――――
1/4   2/4   3/4   4/4
```
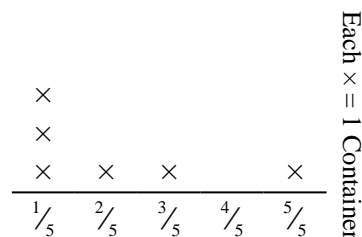Each × = 1 Bottle

If you were to redistribute the vitamins, so each bottle weighed the same amount, how heavy would each bottle be?

5) Paige tore a sheet of paper into different length pieces. The line plot below shows the length (in inches) of each piece.

```
×                ×
×    ×           ×
―――――――――――――――――――――
1/5  2/5  3/5  4/5  5/5
```
Each × = 1 Piece

If she had tore the sheet into equal sized pieces, how long would each piece be?

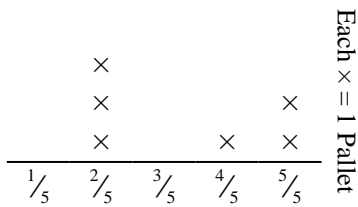**6)** The line plot below shows the amount of liquid (in liters) in different containers.

```
×
×
×    ×    ×              ×
―――――――――――――――――――――――――――
1/5  2/5  3/5  4/5  5/5
```
Each × = 1 Container

Find the amount of liquid each container would have if if the total amount were redistributed equally.

Math

Solve each problem.

Answers

1) The line plot below shows the weight (in tons) of boxes on pallets.

×
×
×   ×
×   ×   ×

$\frac{1}{5}$ $\frac{2}{5}$ $\frac{3}{5}$ $\frac{4}{5}$ $\frac{5}{5}$

Each × = 1 Pallet
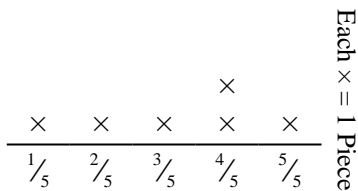
If the weight were redistributed evenly, how much weight would be on each pallet?

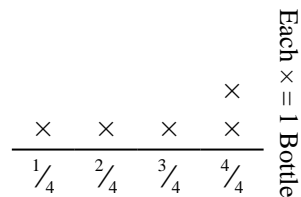2) The line plot below shows the weight (in kilograms) that each cabinet shelf is holding.

×
×
×   ×   ×

$\frac{1}{3}$ $\frac{2}{3}$ $\frac{3}{3}$

Each × = 1 Shelf

Find the amount of weight each shelf would have if the weight were redistributed equally.

1. $\frac{20}{30} = \frac{2}{3}$

2. $\frac{12}{15} = \frac{4}{5}$

3. $\frac{19}{30}$

4. $\frac{14}{20} = \frac{7}{10}$

5. $\frac{12}{25}$

6. $\frac{13}{30}$

3) Edward cut a rope into different lengths. The line plot below shows the length (in feet) of the cut pieces.

×
×   ×   ×   ×   ×

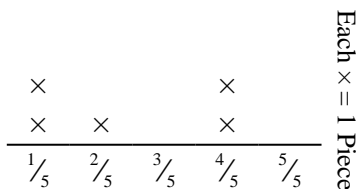$\frac{1}{5}$ $\frac{2}{5}$ $\frac{3}{5}$ $\frac{4}{5}$ $\frac{5}{5}$

Each × = 1 Piece

If he had cut the rope so each piece was the same length, how long would each piece be?

4) The line plot below shows the weight (in grams) of vitamin bottles.

×
×   ×   ×   ×

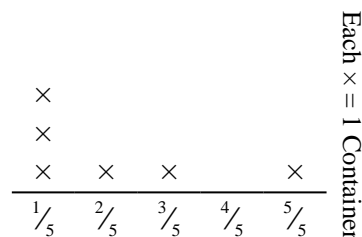$\frac{1}{4}$ $\frac{2}{4}$ $\frac{3}{4}$ $\frac{4}{4}$

Each × = 1 Bottle

If you were to redistribute the vitamins, so each bottle weighed the same amount, how heavy would each bottle be?

5) Paige tore a sheet of paper into different length pieces. The line plot below shows the length (in inches) of each piece.

×   ×
×   ×   ×

$\frac{1}{5}$ $\frac{2}{5}$ $\frac{3}{5}$ $\frac{4}{5}$ $\frac{5}{5}$

Each × = 1 Piece

If she had tore the sheet into equal sized pieces, how long would each piece be?

6) The line plot below shows the amount of liquid (in liters) in different containers.

×
×
×   ×   ×   ×

$\frac{1}{5}$ $\frac{2}{5}$ $\frac{3}{5}$ $\frac{4}{5}$ $\frac{5}{5}$

Each × = 1 Container

Find the amount of liquid each container would have if if the total amount were redistributed equally.