Distributing Line Plot Values   Name:
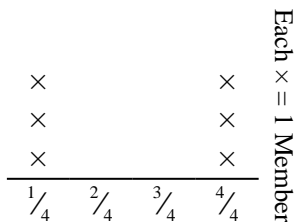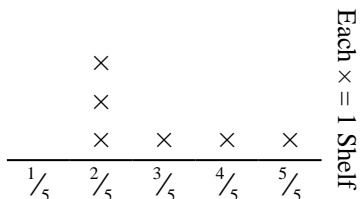
Solve each problem.

1) The line plot below shows the distance (in miles) that each member of a relay race travelled.
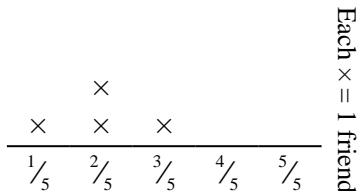
```
 ×                  ×
 ×                  ×
 ×                  ×
 ─────────────────────
 ¼    ²⁄₄    ³⁄₄    ⁴⁄₄
```
Each × = 1 Member

How far would each person have run if the distances were distributed evenly?

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

```
 ×                  ×
 ×                  ×    ×
 ─────────────────────────
 ⅕    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?

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

```
      ×
      ×
      ×    ×    ×    ×
 ─────────────────────────
 ⅕    ²⁄₅    ³⁄₅    ⁴⁄₅    ⁵⁄₅
```
Each × = 1 Shelf
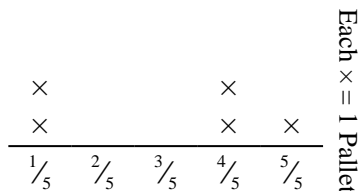
Find the amount of weight each shelf would have if the weight were redistributed equally.

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

```
 ×
 ×    ×                  ×
 ─────────────────────────
 ⅕    ²⁄₅    ³⁄₅    ⁴⁄₅    ⁵⁄₅
```
Each × = 1 Bottle

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

5) The line plot below shows the pounds of candy a group of friends received.

```
      ×
 ×    ×    ×
 ─────────────────────────
 ⅕    ²⁄₅    ³⁄₅    ⁴⁄₅    ⁵⁄₅
```
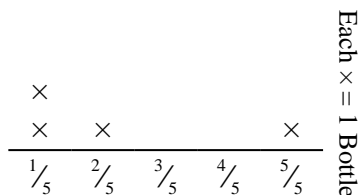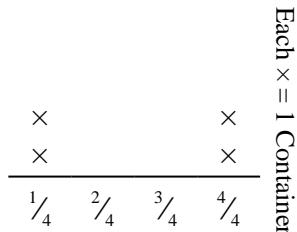Each × = 1 friend

If they split the total amount of candy evenly, how much would each friend get?

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

```
 ×                  ×
 ×                  ×
 ─────────────────────
 ¼    ²⁄₄    ³⁄₄    ⁴⁄₄
```
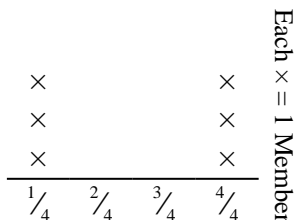Each × = 1 Container

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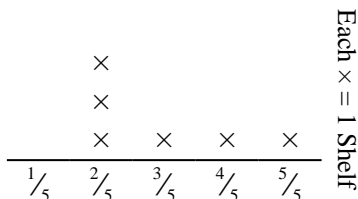
1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

Solve each problem.

1) The line plot below shows the distance (in miles) that each member of a relay race travelled.
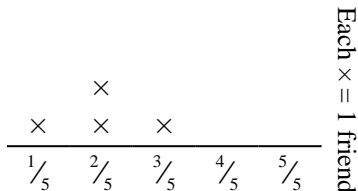
```
×                 ×
×                 ×
×                 ×
───────────────────────
1/4   2/4   3/4   4/4
```
Each × = 1 Member

How far would each person have run if the distances were distributed evenly?

1. $\dfrac{15}{24} = \dfrac{5}{8}$

2) 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. $\dfrac{15}{25} = \dfrac{3}{5}$

3. $\dfrac{18}{30} = \dfrac{3}{5}$

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

```
      ×
      ×
      ×     ×     ×     ×
──────────────────────────────
1/5   2/5   3/5   4/5   5/5
```
Each × = 1 Shelf

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

4. $\dfrac{9}{20}$

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

```
×
×     ×                 ×
──────────────────────────────
1/5   2/5   3/5   4/5   5/5
```
Each × = 1 Bottle

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

5. $\dfrac{8}{20} = \dfrac{2}{5}$

6. $\dfrac{10}{16} = \dfrac{5}{8}$

5) The line plot below shows the pounds of candy a group of friends received.

```
      ×
×     ×     ×
──────────────────────────────
1/5   2/5   3/5   4/5   5/5
```
Each × = 1 friend
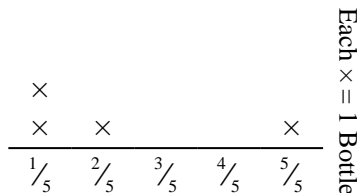
If they split the total amount of candy evenly, how much would each friend get?

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

```
×                 ×
×                 ×
──────────────────────────
1/4   2/4   3/4   4/4
```
Each × = 1 Container

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

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