

# Fractions are **NUMBERS**.

<http://www.green-planet-solar-energy.com>

We need to learn this before we do anything else with them. To get the idea, we are going to start by placing fractions on number lines.

**Q1.** For each set, draw a new number line from **0 to 10** and place the fraction numbers on that line.

Set 1:

|                 |                 |   |                 |                 |   |
|-----------------|-----------------|---|-----------------|-----------------|---|
| $5 \frac{1}{2}$ | $7 \frac{1}{2}$ | 4 | $2 \frac{1}{2}$ | $8 \frac{1}{2}$ | 1 |
|-----------------|-----------------|---|-----------------|-----------------|---|

Set 2:

|                 |                 |                 |   |                 |                 |
|-----------------|-----------------|-----------------|---|-----------------|-----------------|
| $3 \frac{1}{2}$ | $4 \frac{1}{2}$ | $9 \frac{1}{2}$ | 6 | $2 \frac{1}{2}$ | $7 \frac{1}{2}$ |
|-----------------|-----------------|-----------------|---|-----------------|-----------------|

Set 3:

|                 |   |                 |                 |                 |                 |
|-----------------|---|-----------------|-----------------|-----------------|-----------------|
| $6 \frac{1}{2}$ | 9 | $0 \frac{1}{2}$ | $3 \frac{1}{2}$ | $5 \frac{1}{2}$ | $4 \frac{1}{2}$ |
|-----------------|---|-----------------|-----------------|-----------------|-----------------|

**Q2.** These sets require a number line between **10 and 20**.

Set 1:

|                  |    |                  |                  |    |                  |
|------------------|----|------------------|------------------|----|------------------|
| $15 \frac{1}{2}$ | 12 | $13 \frac{1}{2}$ | $17 \frac{1}{2}$ | 11 | $18 \frac{1}{2}$ |
|------------------|----|------------------|------------------|----|------------------|

Set 2:

|                  |                  |    |                  |    |                  |
|------------------|------------------|----|------------------|----|------------------|
| $10 \frac{1}{2}$ | $16 \frac{1}{2}$ | 18 | $12 \frac{1}{2}$ | 15 | $11 \frac{1}{2}$ |
|------------------|------------------|----|------------------|----|------------------|

Set 3:

|    |                  |                  |    |                  |                  |
|----|------------------|------------------|----|------------------|------------------|
| 16 | $18 \frac{1}{2}$ | $14 \frac{1}{2}$ | 19 | $11 \frac{1}{2}$ | $14 \frac{1}{2}$ |
|----|------------------|------------------|----|------------------|------------------|

**Q3.** These sets require a number line between **0 and 20**.

Set 1:

|                 |                  |    |                 |                 |    |
|-----------------|------------------|----|-----------------|-----------------|----|
| $5 \frac{1}{2}$ | $12 \frac{1}{2}$ | 14 | $7 \frac{1}{2}$ | $1 \frac{1}{2}$ | 18 |
|-----------------|------------------|----|-----------------|-----------------|----|

Set 2:

|                  |   |                 |                  |    |                 |
|------------------|---|-----------------|------------------|----|-----------------|
| $10 \frac{1}{2}$ | 9 | $2 \frac{1}{2}$ | $12 \frac{1}{2}$ | 15 | $3 \frac{1}{2}$ |
|------------------|---|-----------------|------------------|----|-----------------|

Set 3:

|                  |                 |                 |   |   |                  |
|------------------|-----------------|-----------------|---|---|------------------|
| $19 \frac{1}{2}$ | $8 \frac{1}{2}$ | $7 \frac{1}{2}$ | 4 | 1 | $10 \frac{1}{2}$ |
|------------------|-----------------|-----------------|---|---|------------------|

**Q4.** Let's have a go at some **NEGATIVE NUMBERS**. You will need a number line between **-5 and +5** for each set. Remember that unsigned numbers are *POSITIVE*.

Set 1:

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

$$-4$$

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

$$-1$$

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

$$-2 \frac{1}{2}$$

Set 2:

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

$$4$$

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

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

$$0$$

$$- \frac{1}{2}$$

Set 3:

$$-2$$

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

$$- \frac{1}{2}$$

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

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

$$-3$$

**Q5.** Rule a 10 cm line for each of these and divide it evenly into:

- a) 2 parts
- b) 4 parts
- c) 3 parts
- d) 5 parts
- e) 10 parts
- f) 6 parts