Fractions on a number line
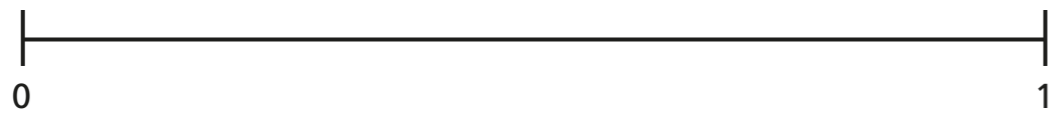
1 Draw an arrow to show the fractions on the number lines.
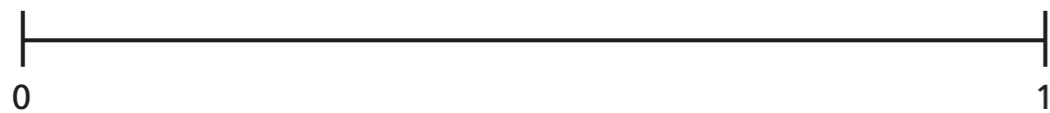
a) $\frac{1}{2}$

0 ———————————————————— 1

b) $\frac{1}{3}$

0 ———————————————————— 1

c) $\frac{1}{4}$

0 ———————————————————— 1
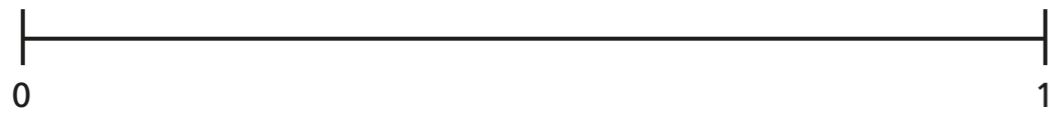
Are your answers accurate or are they estimates?
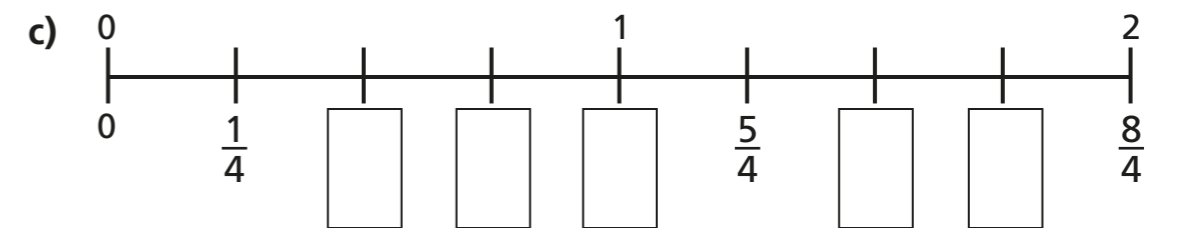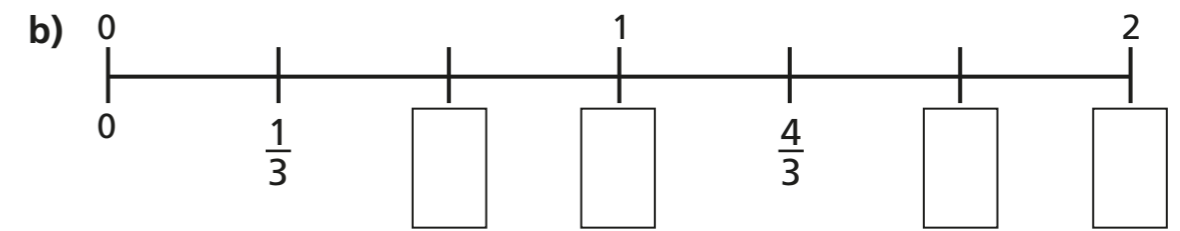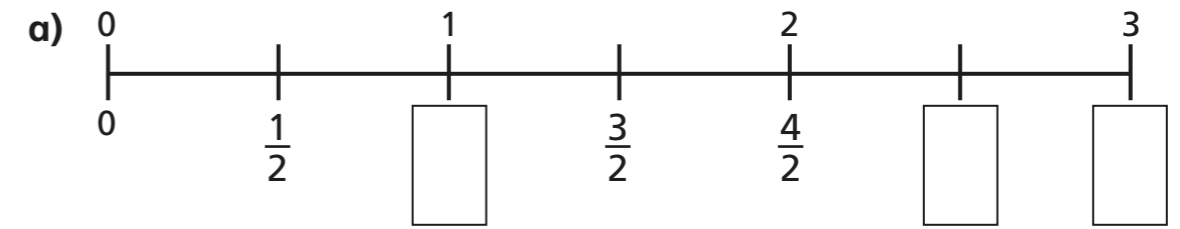
2 Write <, > or = to compare the fractions.

a) $\frac{1}{2}$ ◯ $\frac{1}{4}$

b) $\frac{1}{4}$ ◯ $\frac{1}{3}$

c) $\frac{1}{3}$ ◯ $\frac{1}{2}$

3 Write the missing fractions on the number lines.

a)

0   1   2   3

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

b)

0   1   2

0   $\frac{1}{3}$ ☐   ☐ $\frac{4}{3}$ ☐   ☐

c)

0   1   2

0   $\frac{1}{4}$ ☐   ☐   ☐ $\frac{5}{4}$ ☐   ☐ $\frac{8}{4}$

d) Write three fractions that are equivalent to one whole.

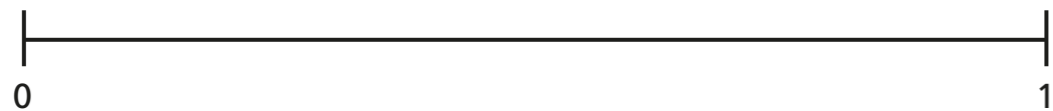Use the number lines to help you.

☐ ☐ ☐

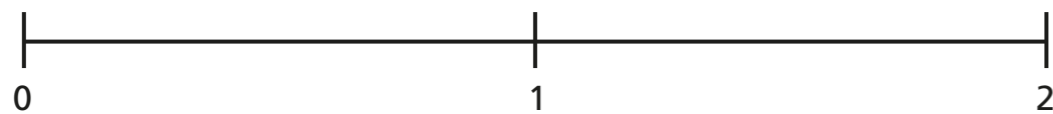What do you notice?

_____

_____

Talk about it with a partner.

4 Draw an arrow to estimate where each fraction belongs on the number line.

a) $\frac{3}{4}$

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├─────────────────────────────────┤
0                                 1
```

b) 1 and $\frac{2}{3}$

```
├────────────────┼────────────────┤
0                1                2
```
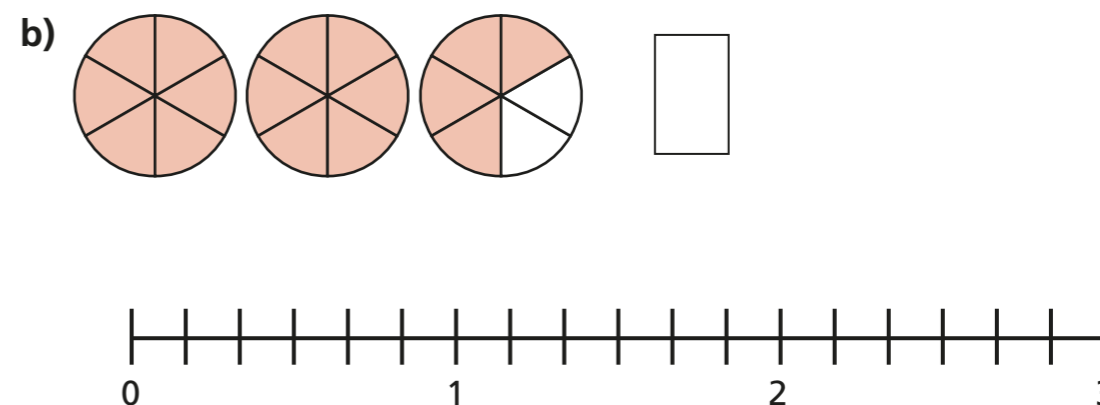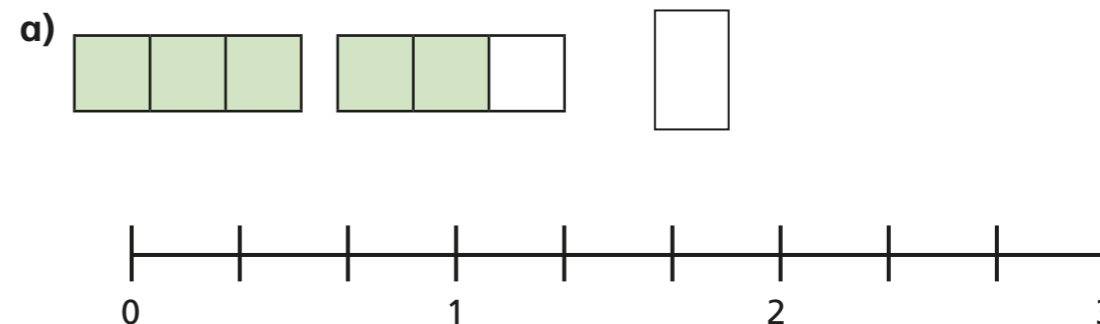
5 Write each fraction under the correct heading.

$\frac{2}{3}$ $\frac{4}{4}$ $\frac{5}{3}$ $\frac{1}{8}$ $\frac{3}{3}$

$\frac{3}{4}$ $\frac{7}{4}$ $\frac{8}{8}$ $\frac{7}{8}$

Less than one whole	Equal to one whole	More than one whole

6 What fraction is shown in each diagram?

Draw an arrow to show the fraction on the number line.

a)

```
├───┼───┼───┼───┼───┼───┼───┼───┼───┤
0               1               2               3
```

b)

```
├─┼─┼─┼─┼─┼─┼─┼─┼─┼─┼─┼─┼─┼─┼─┼─┼─┼─┤
0               1               2               3
```

7

One eighth is greater than one quarter.

Do you agree with Teddy? _____

Use the number line to show why.

```
├─────────────────────────────────┤
0                                 1
```