1. Some fraction of the larger square is shaded. Which number line shows the same amount?

A.

0   1   2

B.

0   1   2

C.

0   1   2
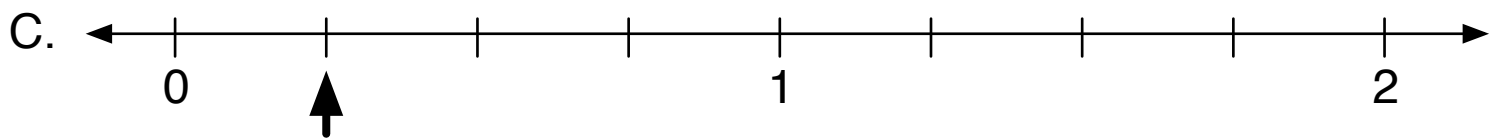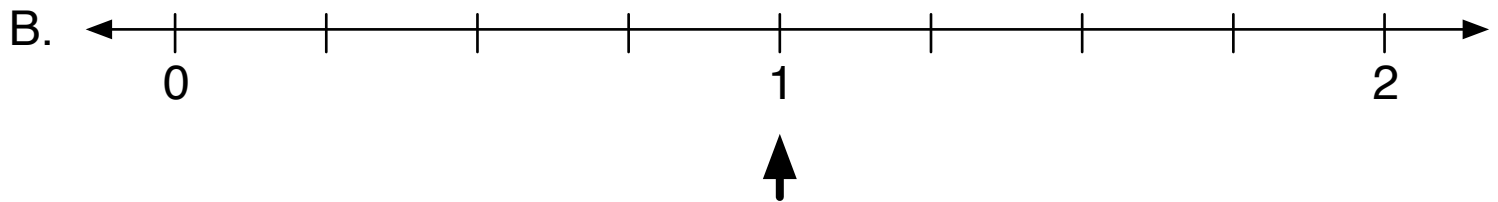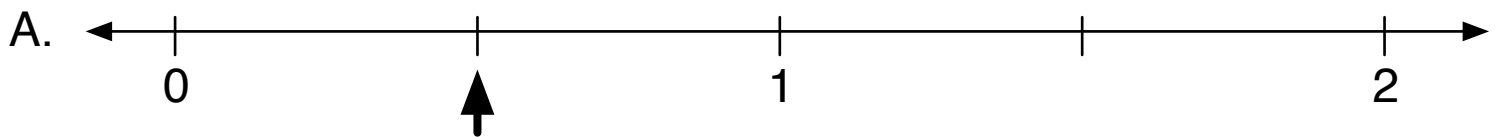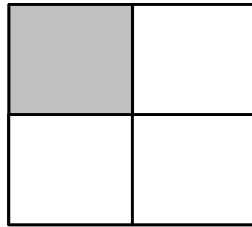
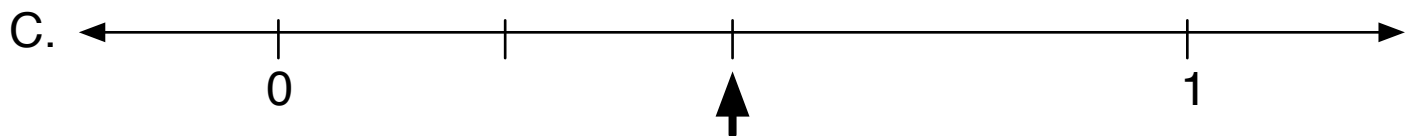**2.** Some fraction of this circle is shaded. Which number line shows the same amount?
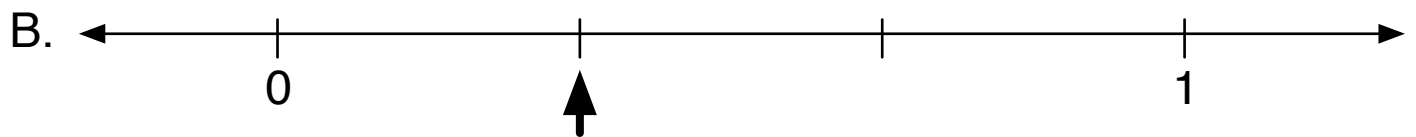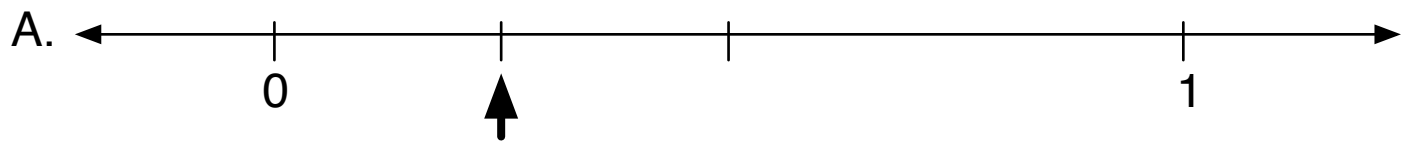
A.

0   1

B.

0   1

C.

0   1

Worksheet 1

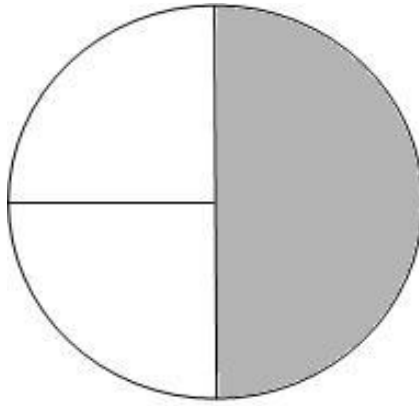Some fraction of this rectangle is shaded. Which number line shows the same amount?

A.

0   1
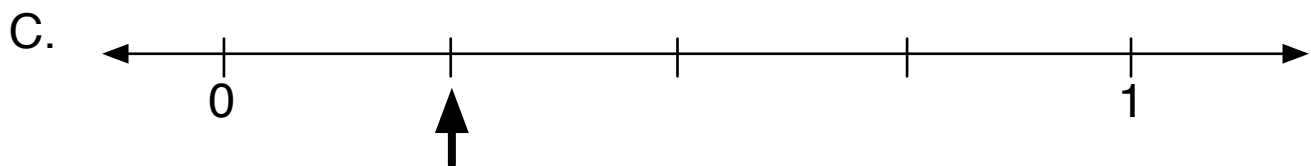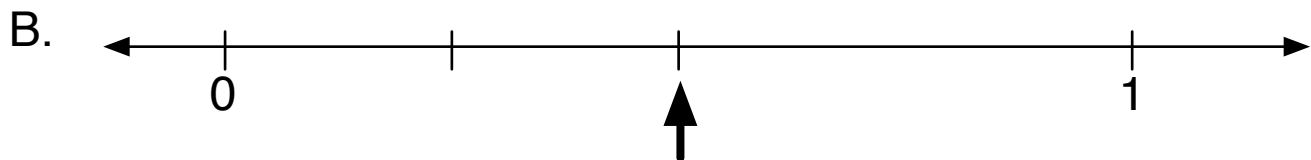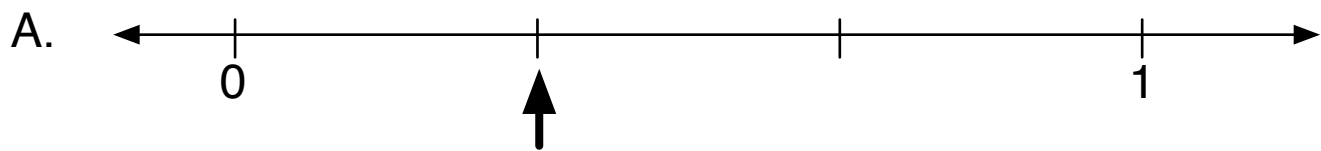
B.

0   1

C.

0   1

Explain why your answer is correct and why the other two answer choices are incorrect.

_____

_____

_____

_____

1. Look at the number line and decide if $\frac{1}{4}$ is placed correctly. Mark your answer in the box.

yes no

☐ ☐

0 $\frac{1}{4}$ 1
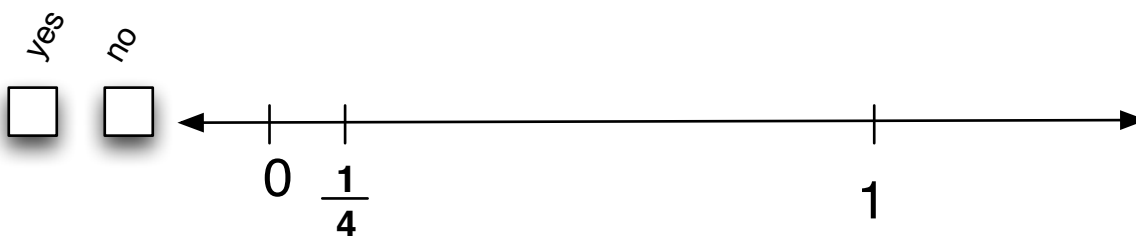
If you think $\frac{1}{4}$ is not placed correctly, use C-rods to mark where $\frac{1}{4}$ should be.

0   1

0   1

0   1

2. Look at the number line and decide if $\frac{2}{3}$ is placed correctly. Mark your answer in the box.

yes no

☐ ☐

```
←——————|————————|———————————————|——————→
        0        2               1
                 ‾
                 3
```

If you think $\frac{2}{3}$ is not placed correctly, use C-rods to mark where $\frac{2}{3}$ should be.

```
←——|————————————————————————|——————→
    0                        1
```

```
←——|————————————————————————|——————→
    0                        1
```

```
←——|————————————————————————|——————→
    0                        1
```
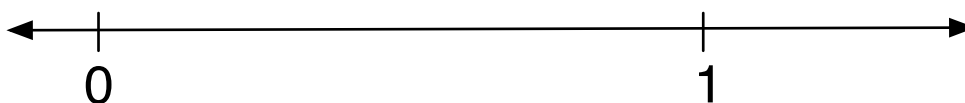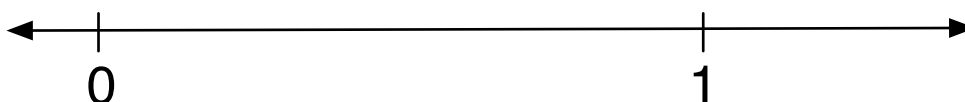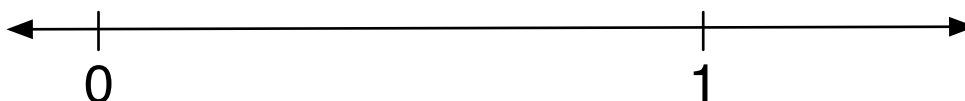
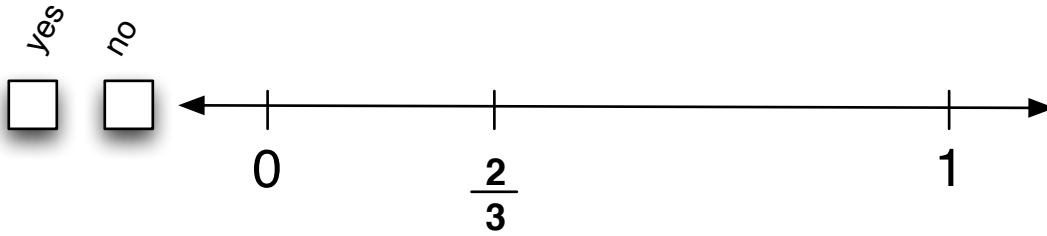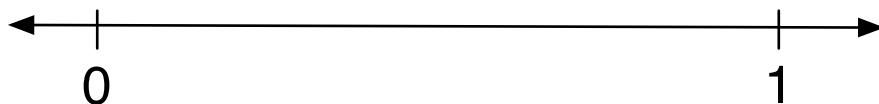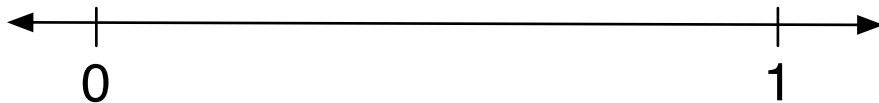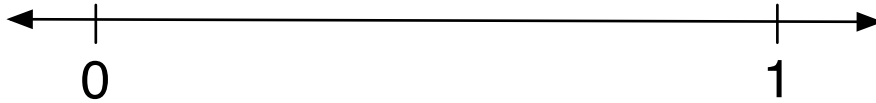**1.** Look at the number line and decide if $\frac{3}{4}$ is placed correctly. Mark your answer in the box.

yes   *no*

☐ ☐

0   3   1
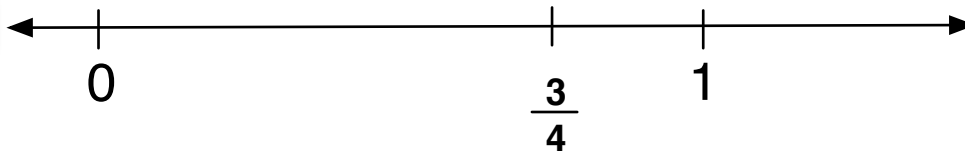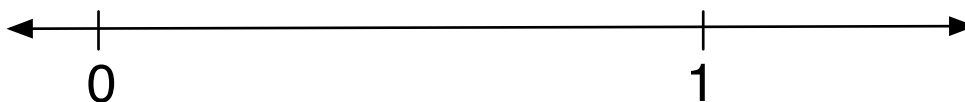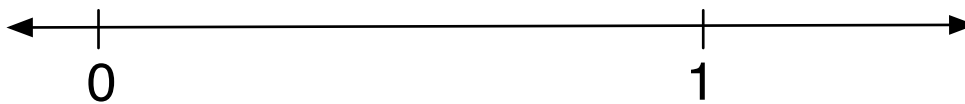   4

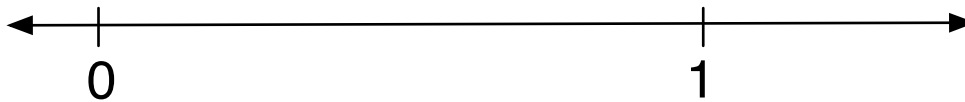If you think $\frac{3}{4}$ is not placed correctly, use C-rods to mark where $\frac{3}{4}$ should be.

0   1

0   1

0   1

1. Keisha wanted to run 1 mile, but she didn't finish. What fraction of a mile did she run?
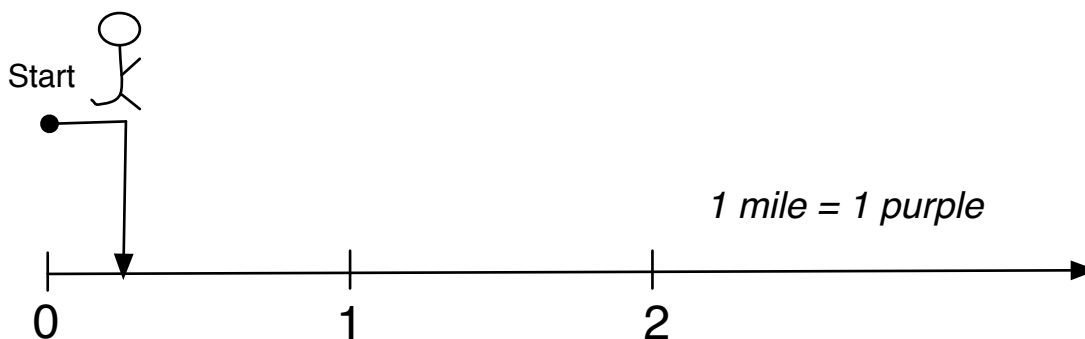
Start

1 mile = 1 purple

0   1   2

What fraction of a mile did Keisha run? _____

What color did you use as a subunit? _____   How many subunits fit into the unit? ____

Start

1 mile = 1 purple

0   1   2
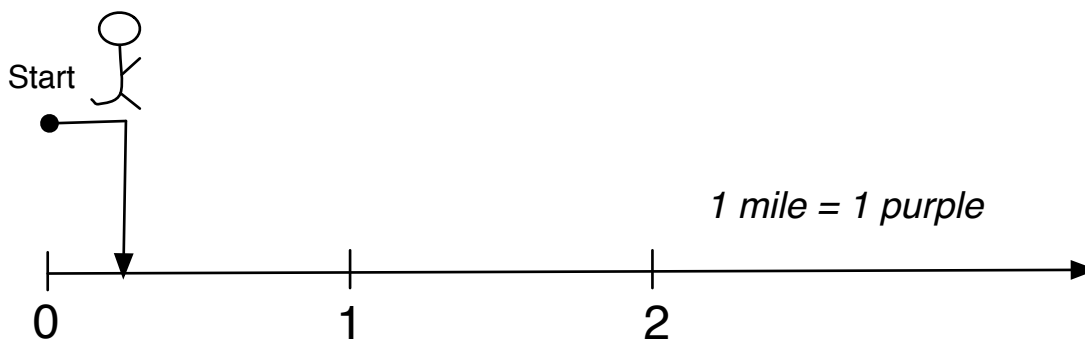
What fraction of a mile did Keisha run? _____

What color did you use as a subunit? _____   How many subunits fit into the unit? ____

2. Kyle wanted to run 1 mile, but he didn't finish. What fraction of a mile did he run?

Start

1 mile = 1 yellow

0   1   2

What fraction of a mile did Kyle run? _____

What color did you use as a subunit? _____   How many subunits fit into the unit? _____

Start

1 mile = 1 yellow

0   1   2

What fraction of a mile did Kyle run? _____

What color did you use as a subunit? _____   How many subunits fit into the unit? _____

Worksheet 1 #2

Start

1 mile = 1 blue

0   1   2

What fraction of a mile did Leon run? _____

What color did you use as a subunit? _____   How many subunits fit into the unit? ____

Start

1 mile = 1 blue

0   1   2

What fraction of a mile did Leon run? _____

What color did you use as a subunit? _____   How many subunits fit into the unit? ____

Worksheet 1 #1

1 mile = 1 orange

What fraction of a mile did Jalia run? _____

What color did you use as a subunit? _____   How many subunits fit into the unit? ____

1 mile = 1 orange
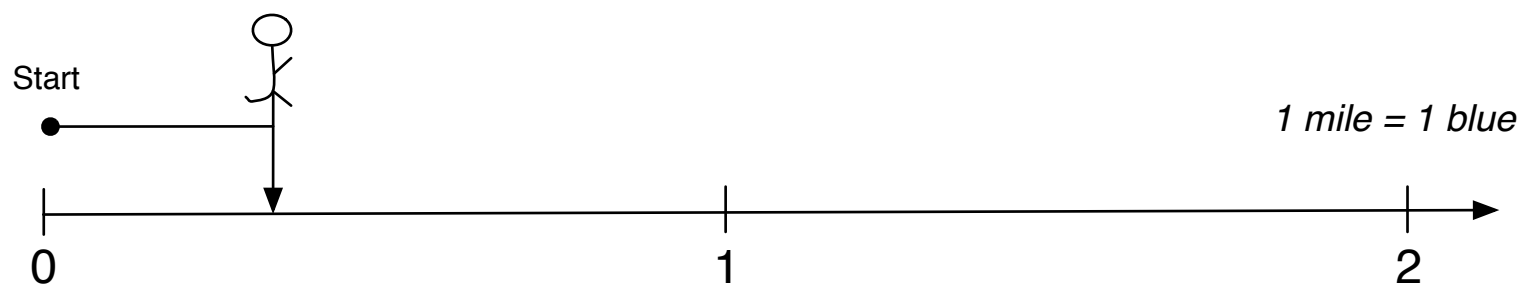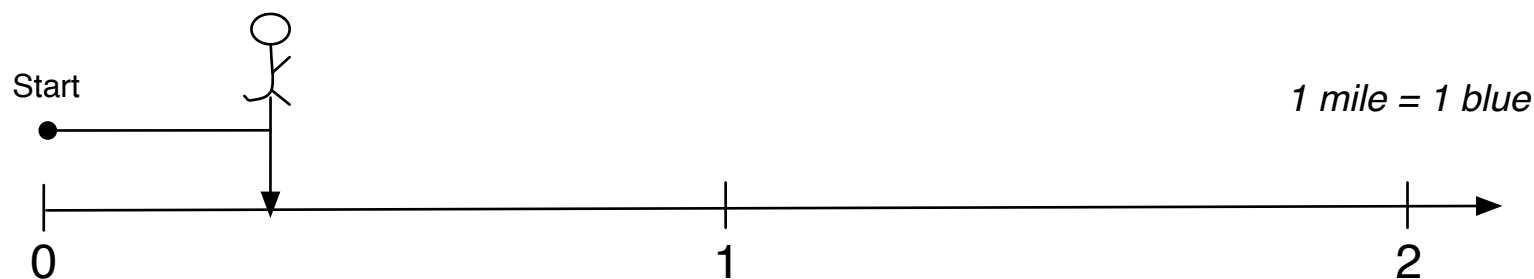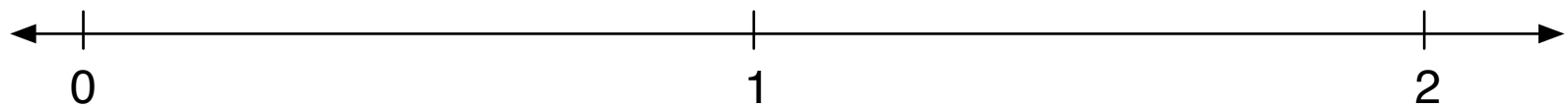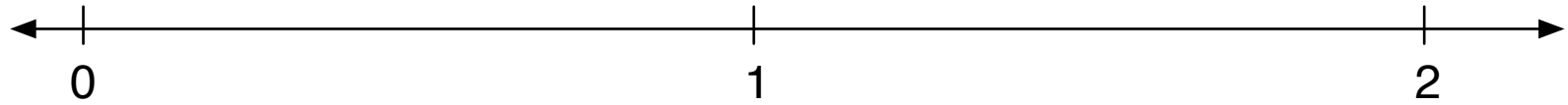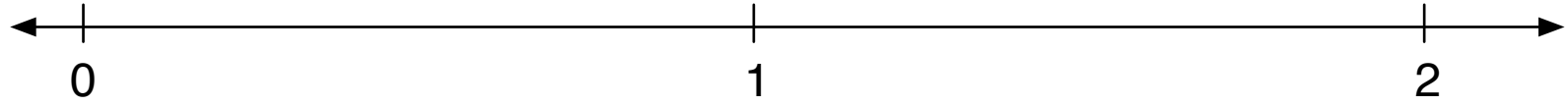
What fraction of a mile did Jalia run? _____

What color did you use as a subunit? _____   How many subunits fit into the unit? ____

Use C-rods to mark $1\frac{1}{3}$ on the number line. Mark other tickmarks and numbers to help you.

0   1   2

0   1   2

0   1   2

1. Use C-rods to mark $2\frac{1}{2}$ on the number line. Mark other tickmarks and numbers to help you.

<--------|-------------------------|---------------------------->
      2   4

<--------|-------------------------|---------------------------->
      2   4

<--------|-------------------------|---------------------------->
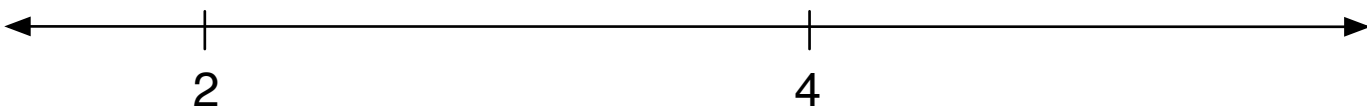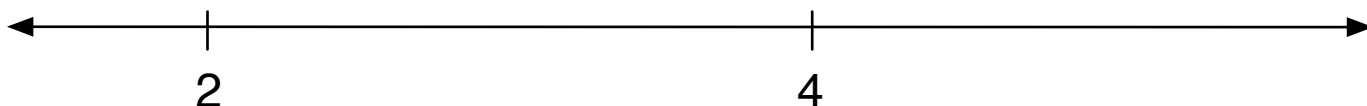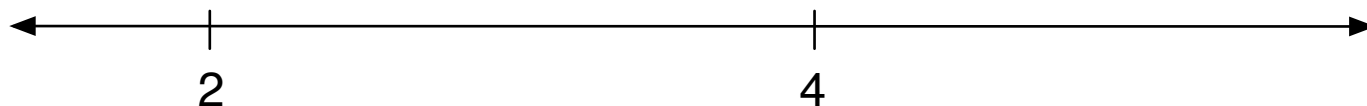   2   4
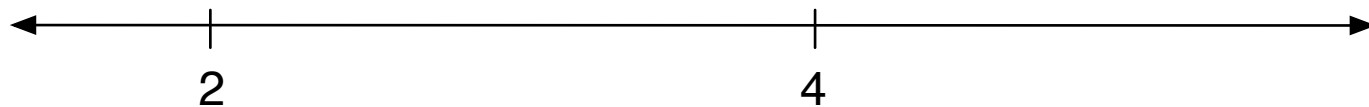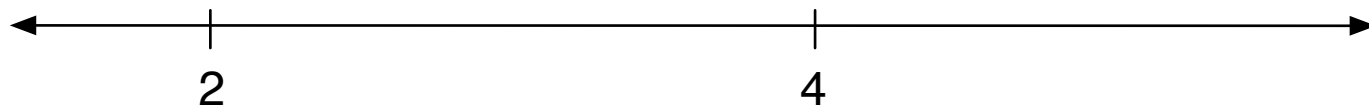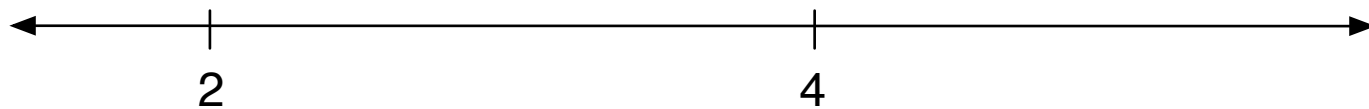
2. Use C-rods to mark the numbers on the line. Mark other tickmarks and numbers to help you.

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

```
◄─────────┼──────────────────────┼──────────────►
          2                      4
```

```
◄─────────┼──────────────────────┼──────────────►
          2                      4
```

```
◄─────────┼──────────────────────┼──────────────►
          2                      4
```

Worksheet 2 #1

1. Use C-rods to mark $2\frac{1}{3}$ on the number line. Mark other tickmarks and numbers to help you.

Worksheet 2 #2

2. Use C-rods to mark the numbers on the line. Mark other tickmarks and numbers to help you.
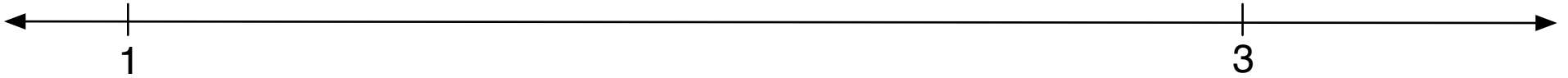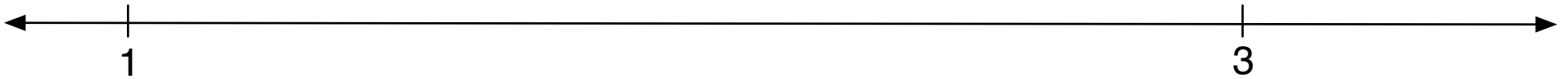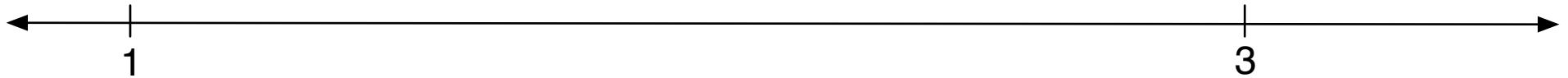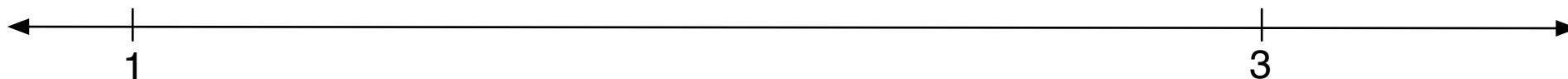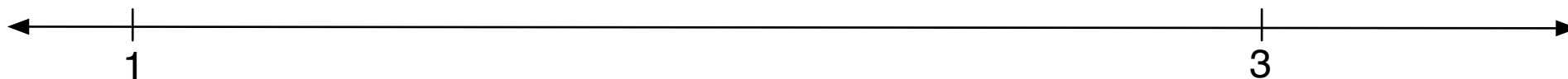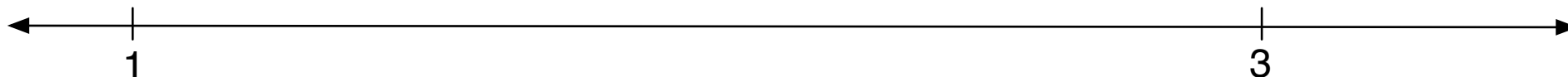
$1\frac{1}{3}$ $3\frac{1}{3}$ $2\frac{2}{3}$

1   3

1   3

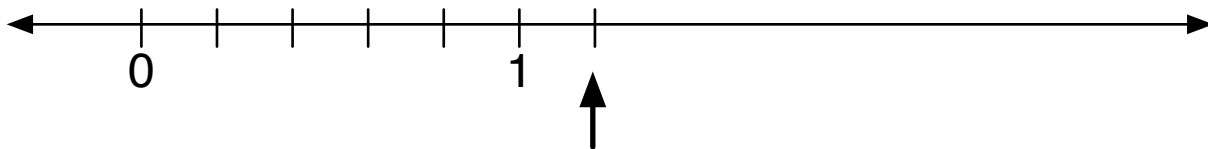1   3
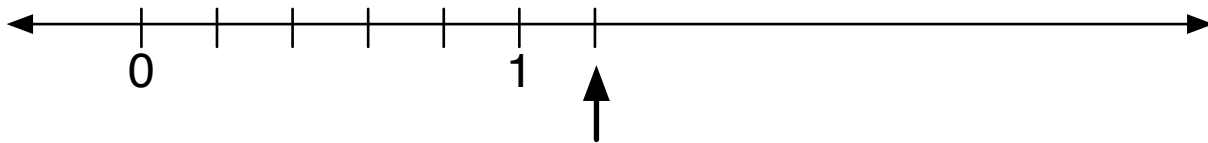
What number is the arrow pointing to?

A. $\frac{6}{6}$ **B.** $\frac{6}{5}$ **C.** $\frac{1}{5}$
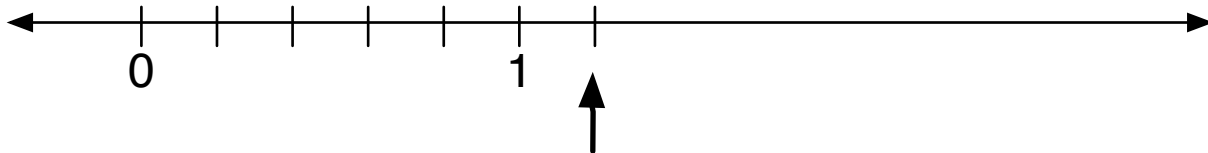
1. a. Circle another name for $\frac{2}{3}$. You can add tickmarks and numbers to help.

$$\frac{2}{6} \qquad \frac{4}{6} \qquad \frac{4}{3}$$

$$\frac{2}{6} \qquad \frac{4}{6} \qquad \frac{4}{3}$$

$$\frac{2}{6} \qquad \frac{4}{6} \qquad \frac{4}{3}$$

1. b. $\frac{2}{3}$ is one name for this fraction, show other names for $\frac{2}{3}$.
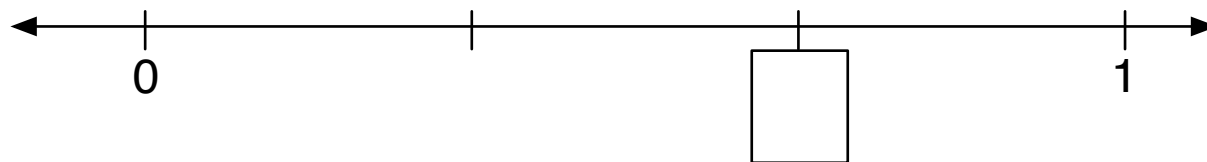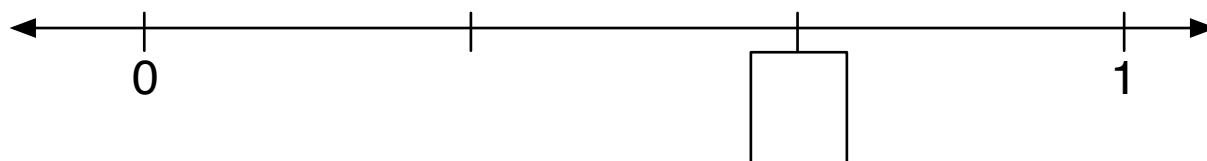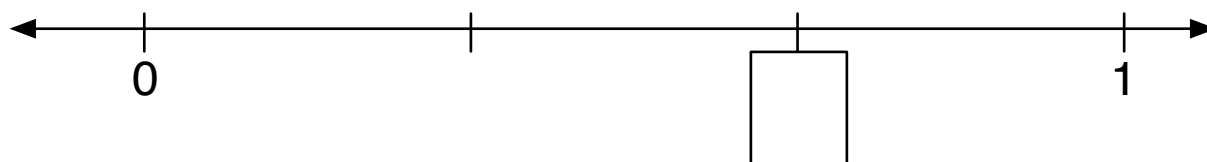
1. Circle the answer that shows another name for $\frac{1}{4}$.
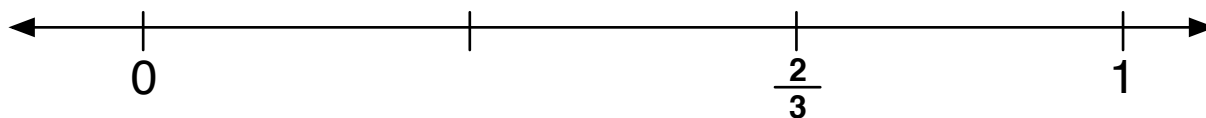You can add tickmarks and numbers to help you.

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

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

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

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

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

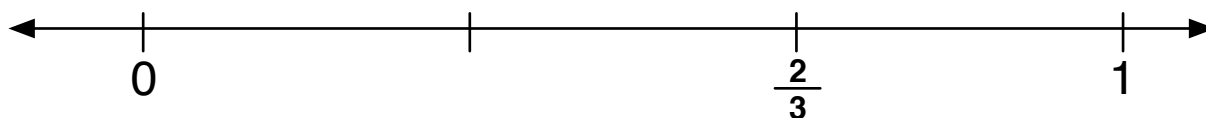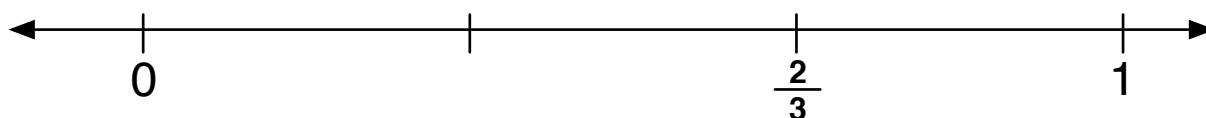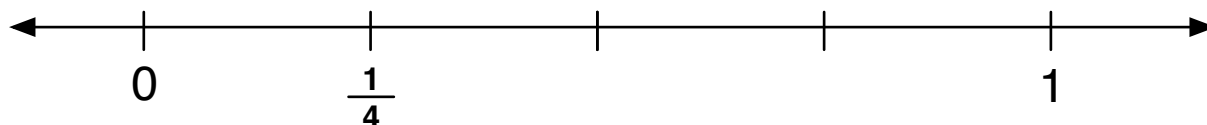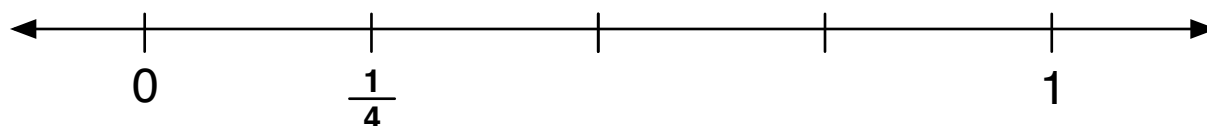$\frac{2}{5}$ $\frac{2}{8}$ $\frac{1}{8}$

2. Circle the answer that shows another name for $\frac{1}{4}$.
You can add tickmarks and numbers to help you.

$\frac{1}{12}$ $\frac{3}{4}$ $\frac{3}{12}$
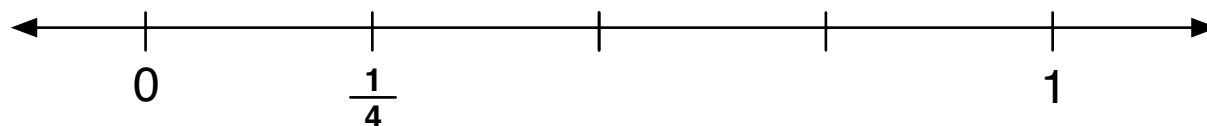

$\frac{1}{12}$ $\frac{3}{4}$ $\frac{3}{12}$
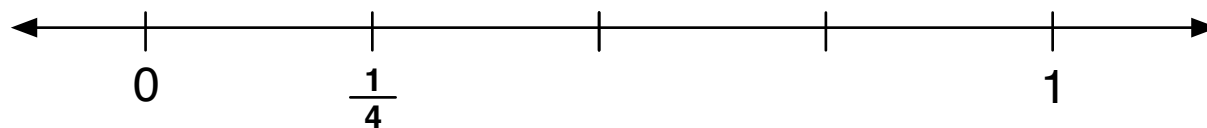
$\frac{1}{12}$ $\frac{3}{4}$ $\frac{3}{12}$

1. Circle the answer that shows another name for $\frac{2}{3}$.
You can add tickmarks and numbers to help you.

```
◄──┬──────────────┬──────────────┬──────────────┬──────►
   0                              2              1
                                  3
```

$\frac{2}{9}$ $\frac{6}{9}$ $\frac{6}{3}$

```
◄──┬──────────────┬──────────────┬──────────────┬──────►
   0                              2              1
                                  3
```
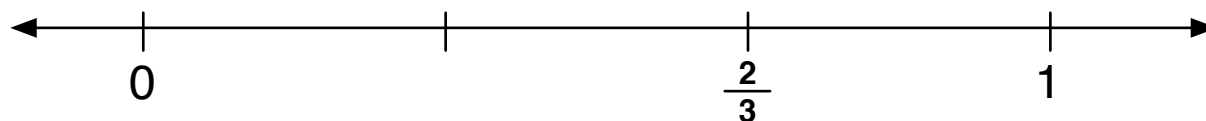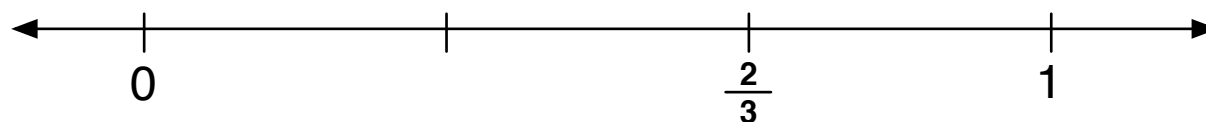
$\frac{2}{9}$ $\frac{6}{9}$ $\frac{6}{3}$

```
◄──┬──────────────┬──────────────┬──────────────┬──────►
   0                              2              1
                                  3
```
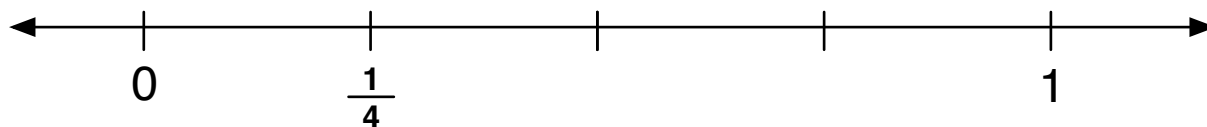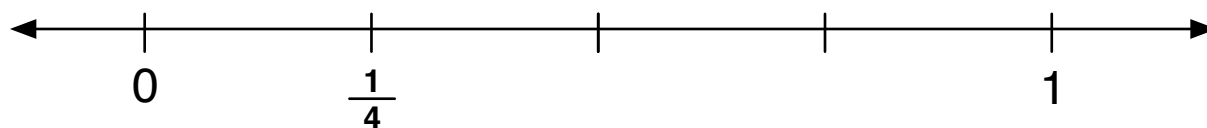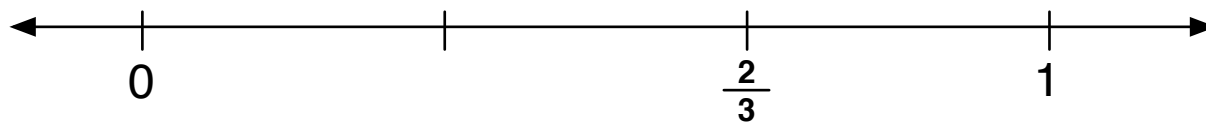
$\frac{2}{9}$ $\frac{6}{9}$ $\frac{6}{3}$

2. Circle the answer that shows another name for $\frac{2}{3}$.
You can add tickmarks and numbers to help you.

$$0 \qquad\qquad\qquad\qquad \frac{2}{3} \qquad 1$$

$$\frac{4}{5} \qquad \frac{4}{6} \qquad \frac{2}{6}$$

$$0 \qquad\qquad\qquad\qquad \frac{2}{3} \qquad 1$$

$$\frac{4}{5} \qquad \frac{4}{6} \qquad \frac{2}{6}$$

$$0 \qquad\qquad\qquad\qquad \frac{2}{3} \qquad 1$$
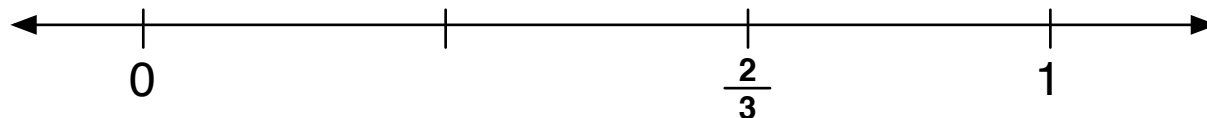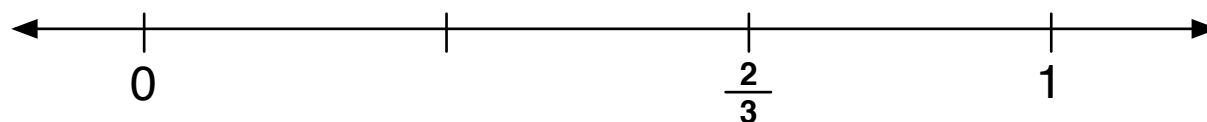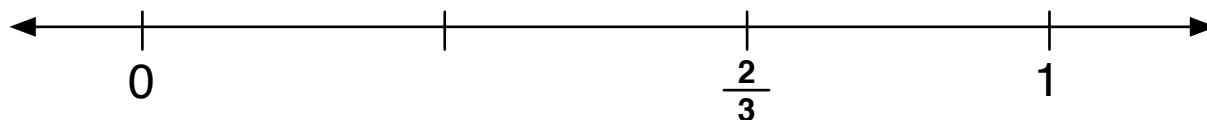
$$\frac{4}{5} \qquad \frac{4}{6} \qquad \frac{2}{6}$$

3. Write different fraction names for $\frac{2}{3}$.
You can add tickmarks and numbers to help you.
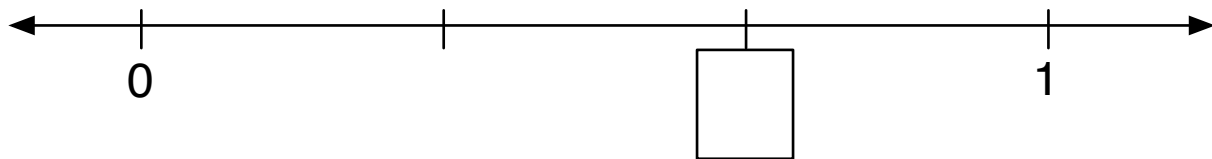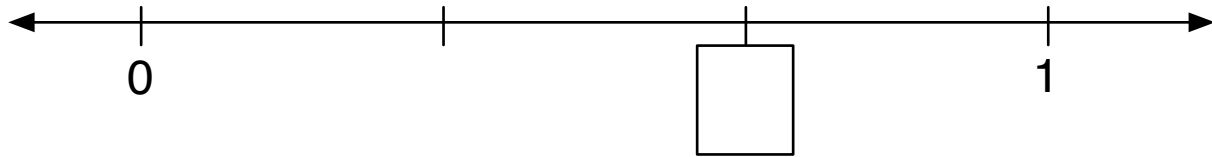
0   1

0   1

0   1

On each problem, you are given three fractions. Which fractions are equivalent?
Hint: Sometimes <u>none</u> of the fractions are equivalent!

1. Place the fractions, and circle if they are equivalent: $\frac{3}{6}$ $\frac{5}{6}$ $\frac{1}{2}$

You can add tickmarks and numbers to help you.

```
◄———┼————————————————┼————————————————┼——►
     0                                  1
```

```
◄———┼————————————————┼————————————————┼——►
     0                                  1
```

On each problem, you are given three fractions. Which fractions are equivalent?

Hint: Sometimes <u>none</u> of the fractions are equivalent!

2. Place the fractions, and circle if they are equivalent: $\frac{2}{10}$ $\frac{8}{10}$ $\frac{4}{5}$

You can add tickmarks and numbers to help you.

0   1

0   1

On each problem, you are given three fractions. Which fractions are equivalent?
Hint: Sometimes <u>none</u> of the fractions are equivalent!

3. Place the fractions, and circle if they are equivalent: $\frac{1}{4}$ $\frac{2}{4}$ $\frac{1}{8}$

You can add tickmarks and numbers to help you.

0   1

0   1

2. Place the fractions, and circle if they are equivalent: $\frac{2}{10}$ $\frac{1}{5}$ $\frac{5}{10}$

You can add tickmarks and numbers to help you.
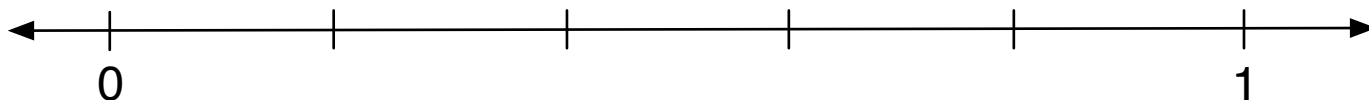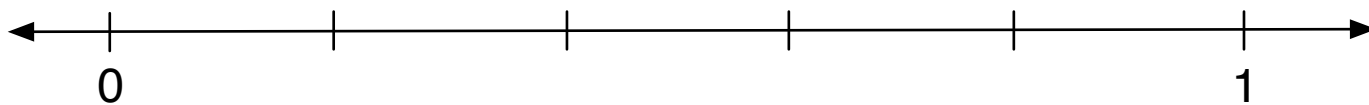
3. Place the fractions, and circle if they are equivalent: $\frac{6}{12}$ $\frac{3}{12}$ $\frac{1}{4}$

You can add tickmarks and numbers to help you.

0   1

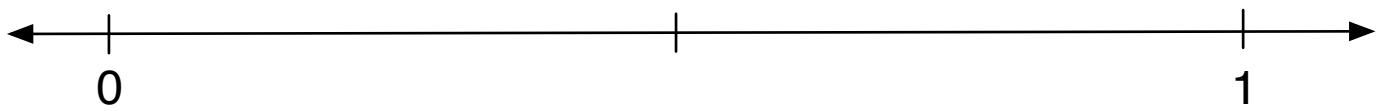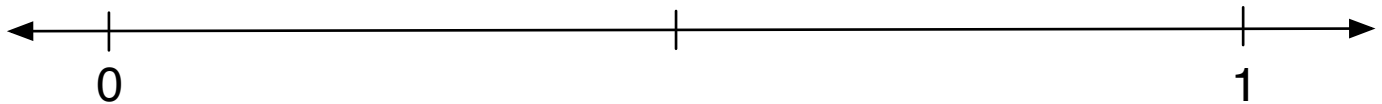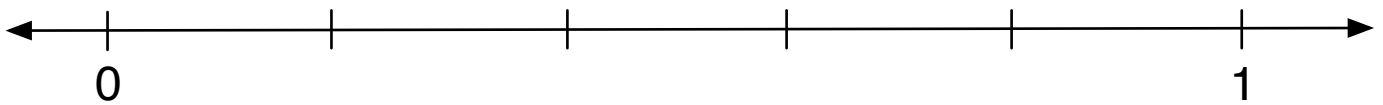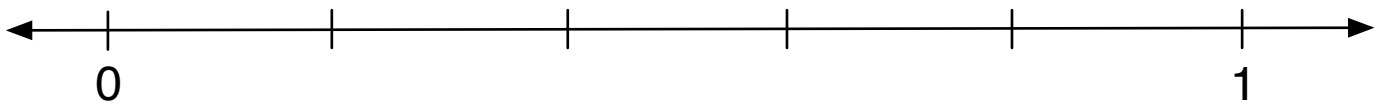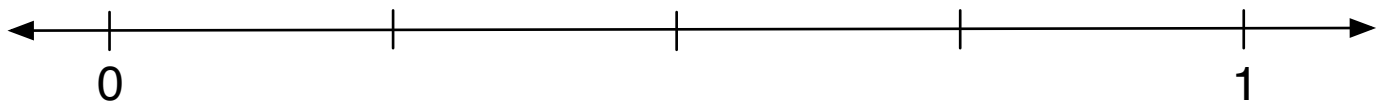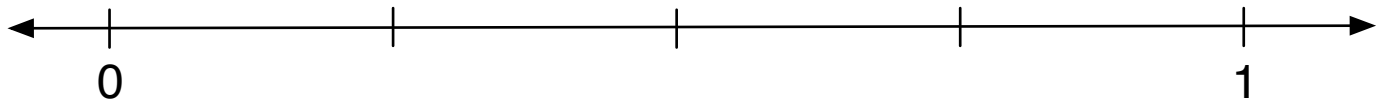0   1

1. a. Place the fractions on the line. You can add tickmarks and numbers.

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

0 ←————————————————————————————→ 1

b. True or false?   ☐ true ☐ false $\frac{1}{4} > \frac{1}{2}$

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

0 ←————————————————————————————→ 1

True or false?   ☐ true ☐ false $\frac{1}{4} > \frac{1}{2}$

2. a. Place the fractions on the line. You can add tickmarks and numbers.

$$\frac{1}{6} \qquad \frac{1}{2} \qquad \frac{5}{6}$$

0   1

b. True or false?   true   false $\frac{5}{6}$ < $\frac{1}{2}$

$$\frac{1}{6} \qquad \frac{1}{2} \qquad \frac{5}{6}$$

0   1

True or false?   true   false $\frac{5}{6}$ < $\frac{1}{2}$

3. a. Place the fractions on the line. You can add tickmarks and numbers.

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

$$\longleftarrow \mathrel{\rule{0pt}{0pt}}\kern-1em | \rule{6cm}{0.4pt} \longrightarrow$$

0   1

b. True or false?   true false
☐ ☐ $\frac{3}{8}$ < $\frac{3}{4}$

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

$$\longleftarrow \mathrel{\rule{0pt}{0pt}}\kern-1em | \rule{6cm}{0.4pt} \longrightarrow$$

0   1

True or false?   true false
☐ ☐ $\frac{3}{8}$ < $\frac{3}{4}$

1. **a.** Place the fractions on the line. You can add tickmarks and numbers.

$$\frac{1}{2} \qquad \frac{6}{8} \qquad \frac{3}{8}$$

0   1

b. True or false?   true false $\frac{1}{2}$ < $\frac{6}{8}$

$$\frac{1}{2} \qquad \frac{6}{8} \qquad \frac{3}{8}$$

0   1

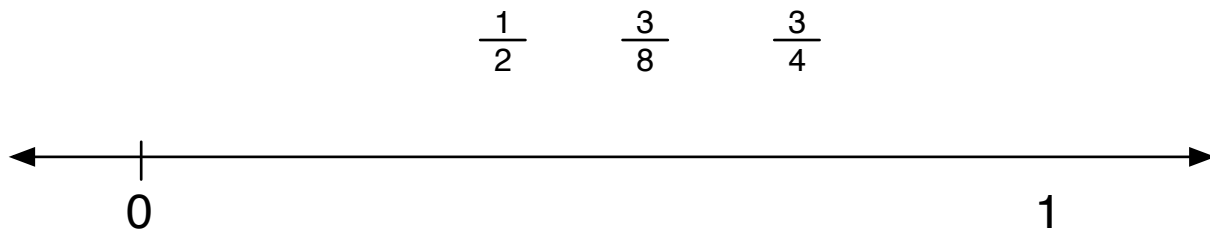**b.** True or false?   true false $\frac{1}{2}$ < $\frac{6}{8}$

3. a. Place the fractions on the line. You can add tickmarks and numbers.

.

$$\frac{5}{6} \qquad \frac{6}{12} \qquad \frac{5}{12}$$

0 ←———————————————————————————→ 1

b. True or false?   □ true □ false $\frac{5}{6} < \frac{5}{12}$

$$\frac{5}{6} \qquad \frac{6}{12} \qquad \frac{5}{12}$$

0 ←———————————————————————————→ 1
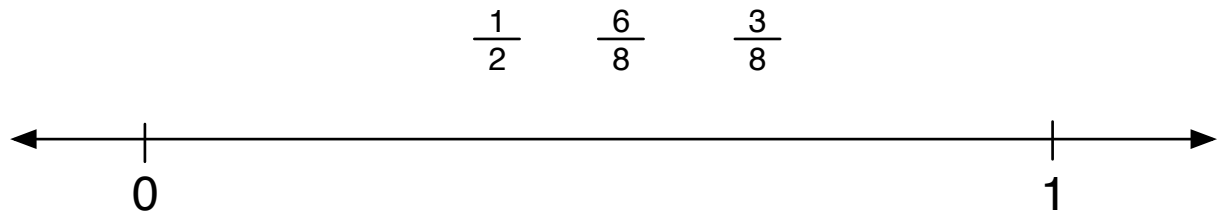
True or false?   □ true □ false $\frac{5}{6} < \frac{5}{12}$

1. a. Place the fractions on the line. You can add tickmarks and numbers.

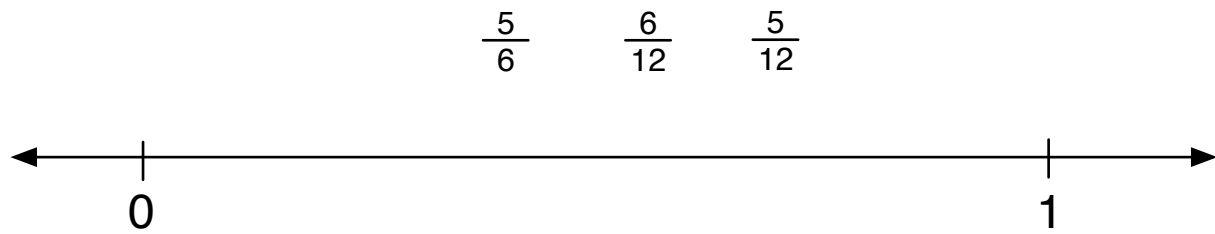$$\frac{1}{4} \qquad \frac{1}{2}$$

0   1

b. True or false?   ☐ true   ☐ false $\frac{1}{4} > \frac{1}{2}$

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

0   1

True or false?   ☐ true   ☐ false $\frac{1}{4} > \frac{1}{2}$

2. a. Place the fractions on the line. You can add tickmarks and numbers.

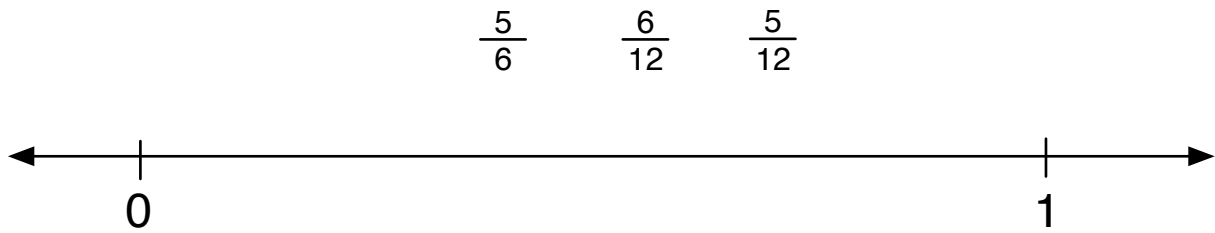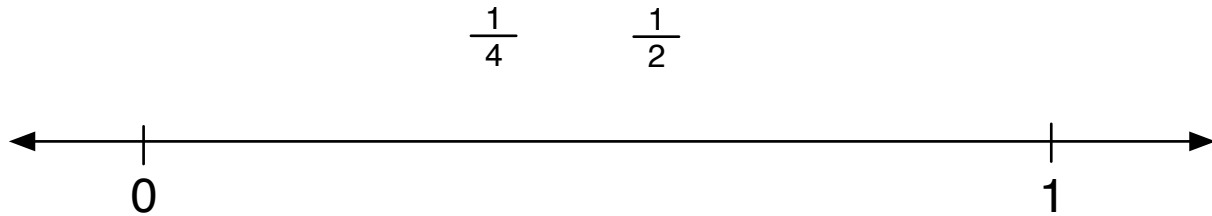$$\frac{1}{6} \qquad \frac{1}{2} \qquad \frac{5}{6}$$

0   1

b. True or false?   true ☐   false ☐ $\frac{5}{6} < \frac{1}{2}$

$$\frac{1}{6} \qquad \frac{1}{2} \qquad \frac{5}{6}$$

0   1

True or false?   true ☐   false ☐ $\frac{5}{6} < \frac{1}{2}$

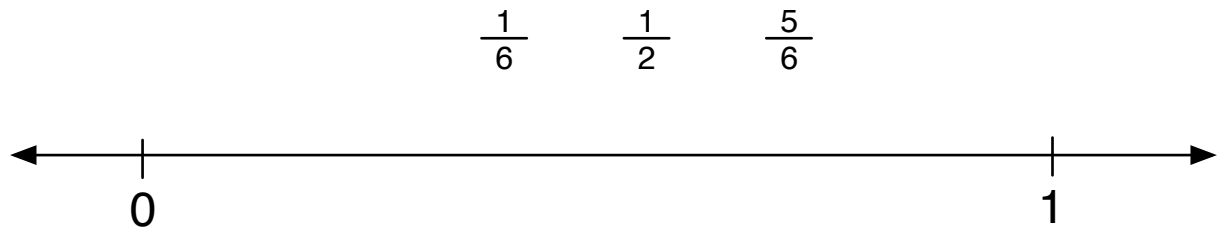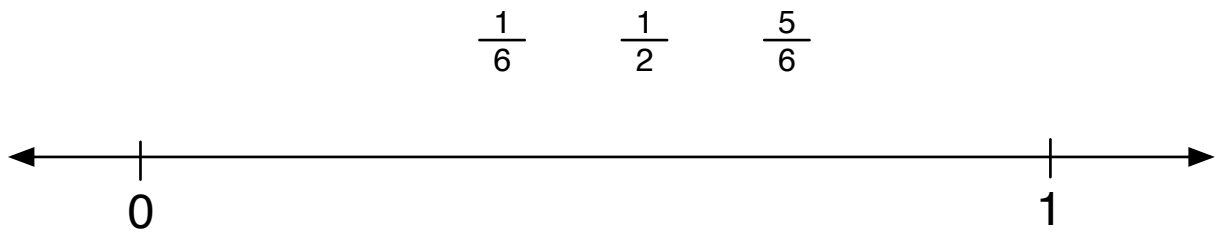**3.** **a.** Place the fractions on the line. You can add tickmarks and numbers.

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

0   1

b. True or false?

true false

☐ ☐ $\frac{3}{8}$ < $\frac{3}{4}$

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

0   1

True or false?

true false

☐ ☐ $\frac{3}{8}$ < $\frac{3}{4}$

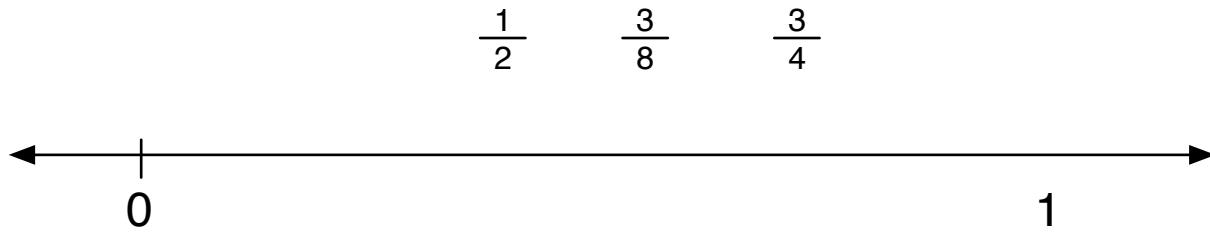**1. a.** Place the fractions on the line. You can add tickmarks and numbers.

$$\frac{1}{2} \qquad \frac{6}{8} \qquad \frac{3}{8}$$

0   1

b. True or false?   true ☐   false ☐ $\frac{1}{2}$ < $\frac{6}{8}$

$$\frac{1}{2} \qquad \frac{6}{8} \qquad \frac{3}{8}$$
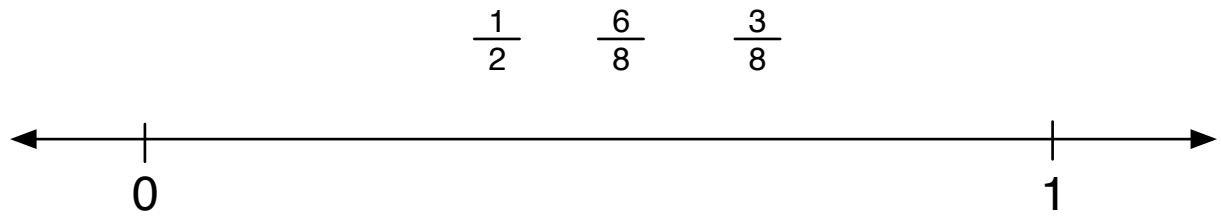
0   1

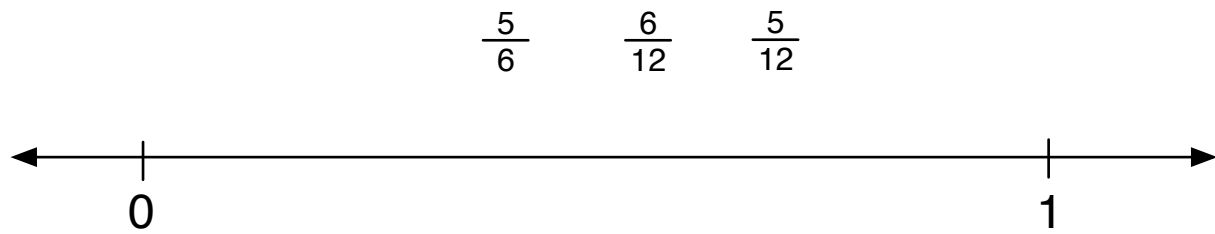**b.** True or false?   true ☐   false ☐ $\frac{1}{2}$ < $\frac{6}{8}$

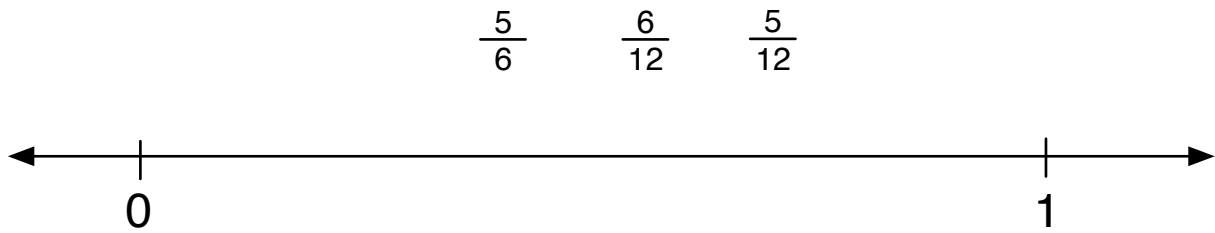**3. a.** Place the fractions on the line. You can add tickmarks and numbers.

.

$$\frac{5}{6} \qquad \frac{6}{12} \qquad \frac{5}{12}$$

0 ←————————————|————————→ 1

b. True or false?   ☐true ☐false $\frac{5}{6}$ < $\frac{5}{12}$

$$\frac{5}{6} \qquad \frac{6}{12} \qquad \frac{5}{12}$$
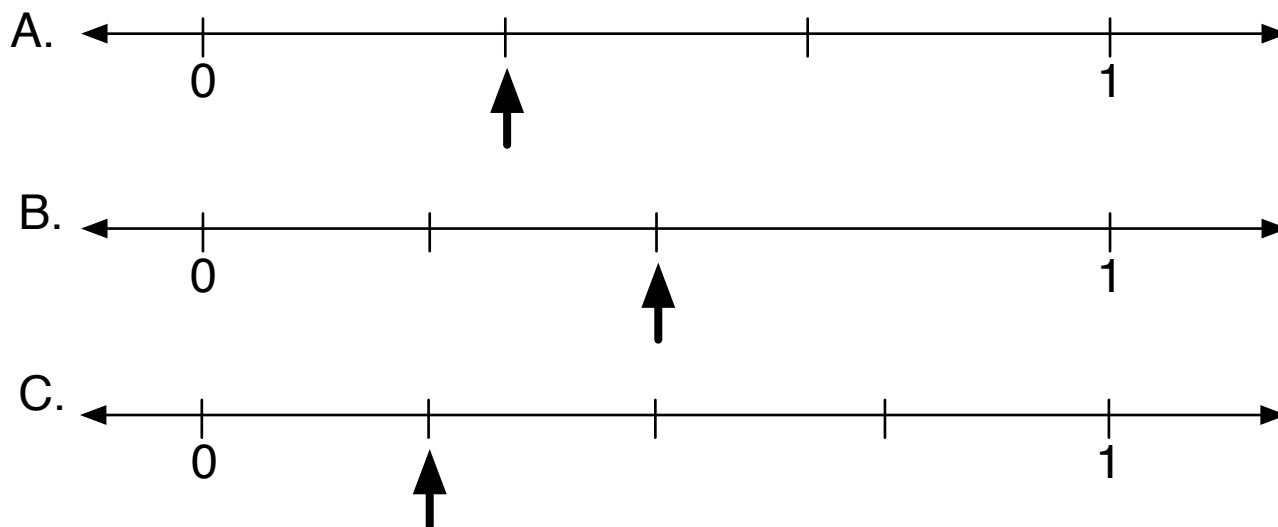
0 ←————————————|————————→ 1
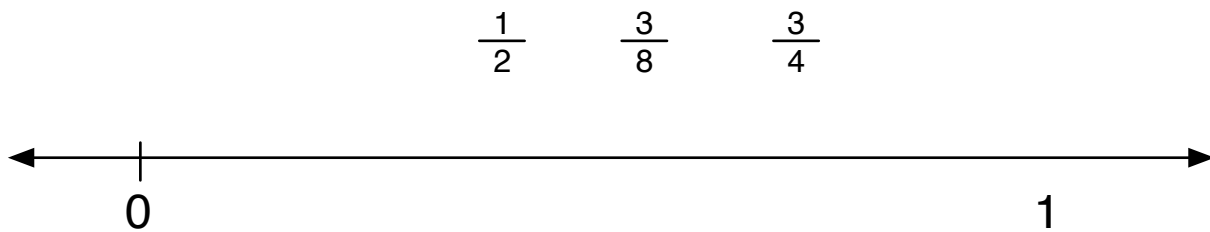
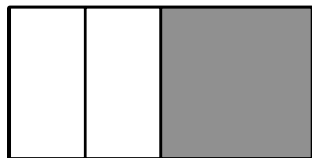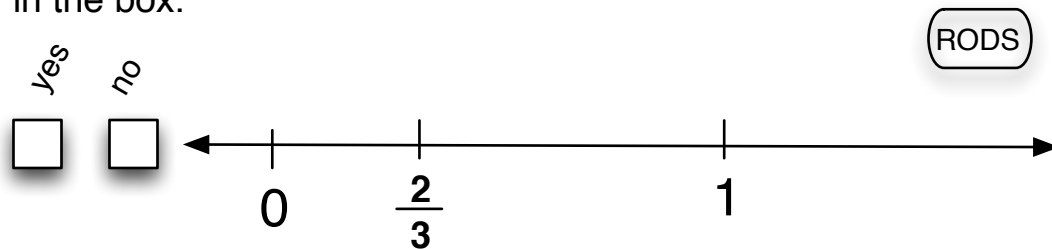True or false?   ☐true ☐false $\frac{5}{6}$ < $\frac{5}{12}$

1. Some fraction of this rectangle is shaded.
Which number line shows the same amount?

RODS

A.

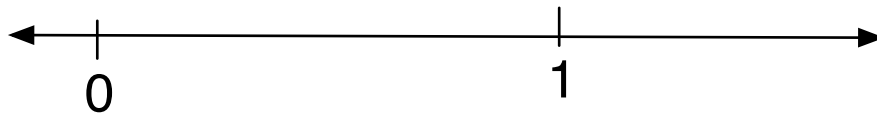0   1

B.

0   1

C.

0   1

5. Look at the number line and decide if $\frac{2}{3}$ is placed correctly. Mark your answer in the box.

RODS

yes   no

☐ ☐

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

If you think $\frac{2}{3}$ is not placed correctly, use C-rods to mark where $\frac{2}{3}$ should be.

0   1

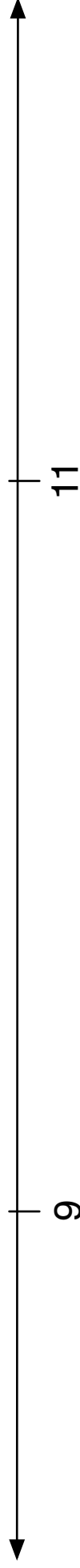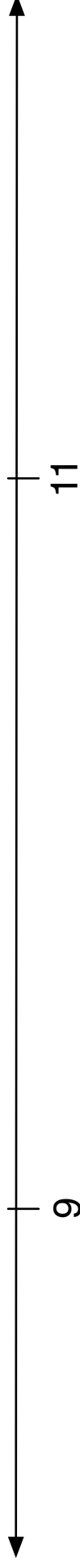**7.** Use C-rods to mark the numbers on the line. Mark other tickmarks and numbers to help you.
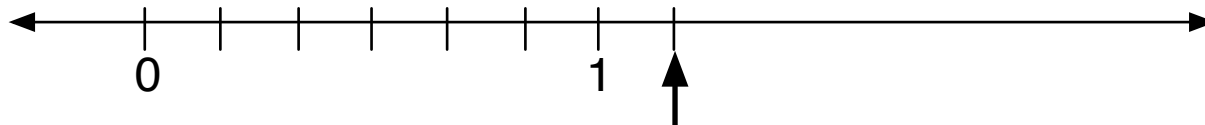
(RODS)

10 $10\frac{1}{2}$ $11\frac{1}{2}$

|————————————|————————————————————————|————————→
9   11

What rod is your unit? _____   What rod is your subunit? _____

|————————————|————————————————————————|————————→
9   11

What rod is your unit? _____   What rod is your subunit? _____

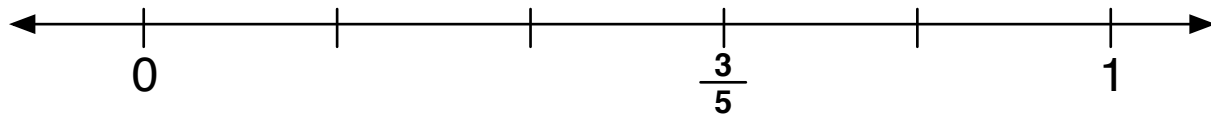**8.** What number is the arrow pointing to?

RODS

A. $\frac{1}{7}$　　　　B. $\frac{7}{7}$　　　　C. $\frac{7}{6}$　　　　D. $\frac{1}{6}$

9. a. Circle an equivalent fraction for $\frac{3}{5}$. You can add tickmarks and numbers. (RODS)
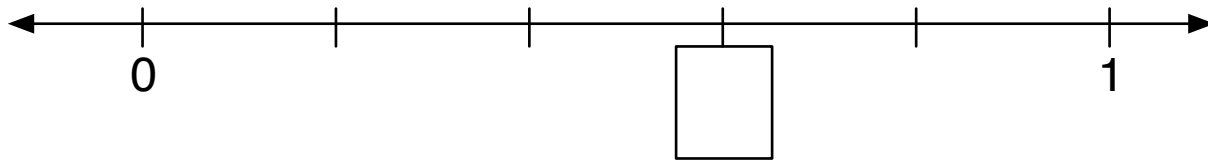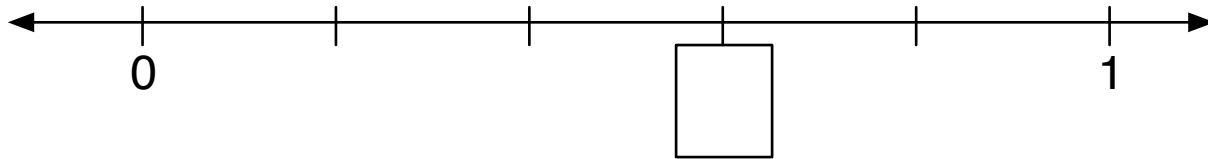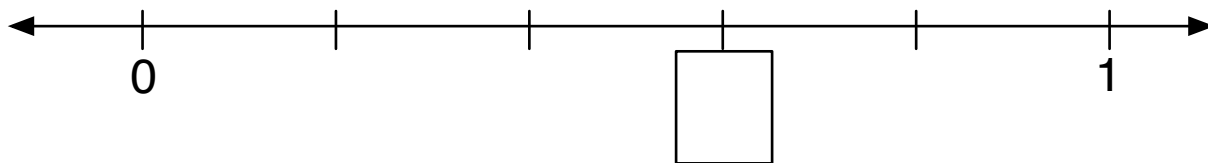

$$\frac{3}{5}$$

$$\frac{3}{10} \qquad \frac{6}{5} \qquad \frac{6}{10}$$

b. $\frac{3}{5}$ is one name for this fraction, show other names for $\frac{3}{5}$. (RODS)

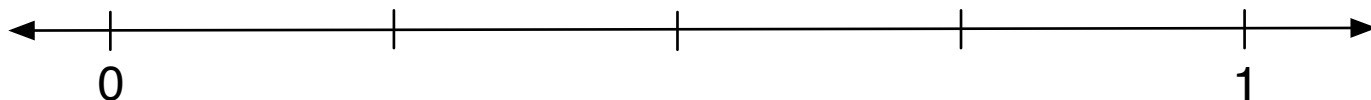**11.** Place the fractions and circle if they are equivalent: $\frac{6}{12}$ $\frac{3}{12}$ $\frac{1}{4}$ RODS
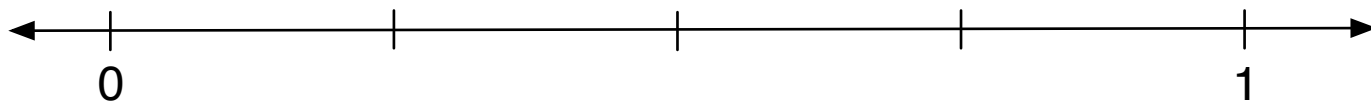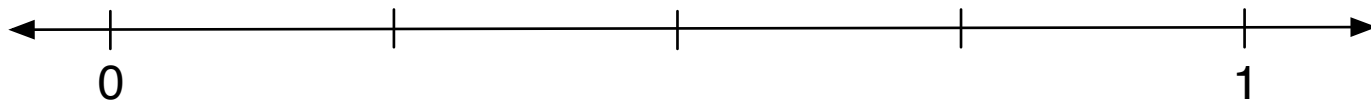
You can add tickmarks and numbers to help you.

0   1

0   1
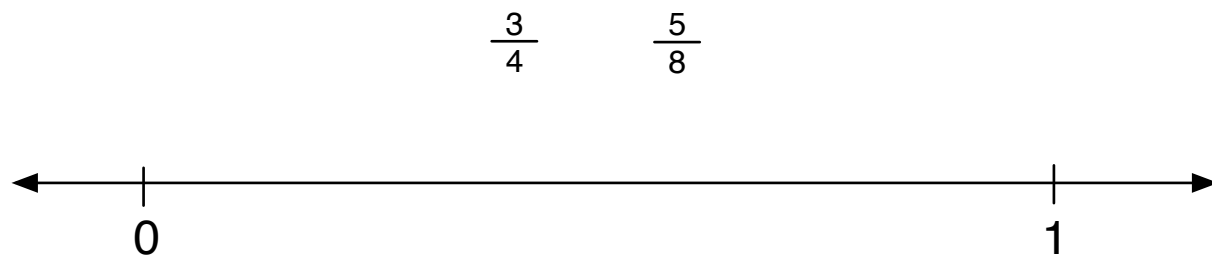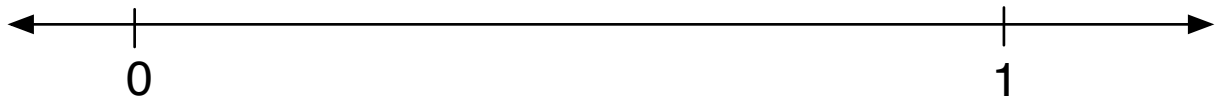

0   1

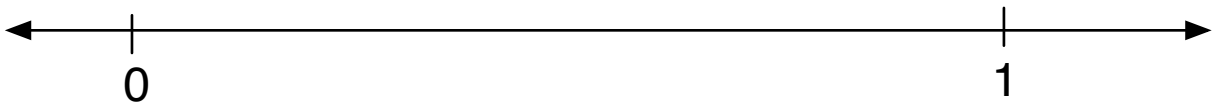**12. a.** Place the fractions on the line. You can add tick marks and numbers to help.

$$\frac{3}{4} \qquad \frac{5}{8}$$

0   1

b. True or false?

true   false

$\frac{5}{8} > \frac{3}{4}$

13. a. Mark $\frac{1}{4}$ on the line below. You can add other tickmarks and numbers.

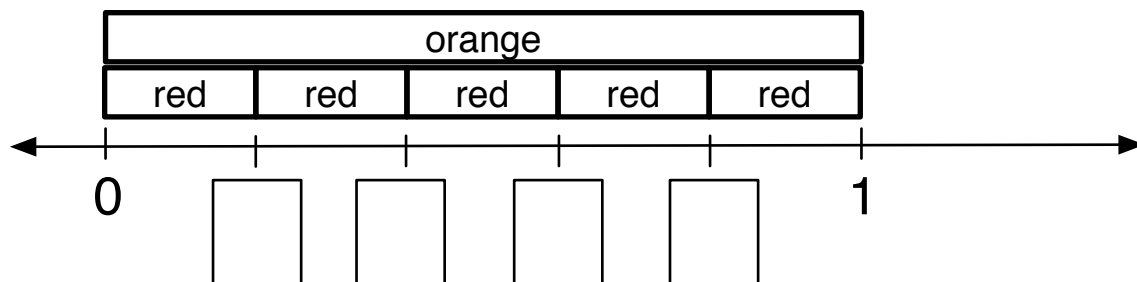0   1

b. Mark $\frac{1}{3}$ on the line below. You can add other tickmarks and numbers.

0   1

c. True or false?
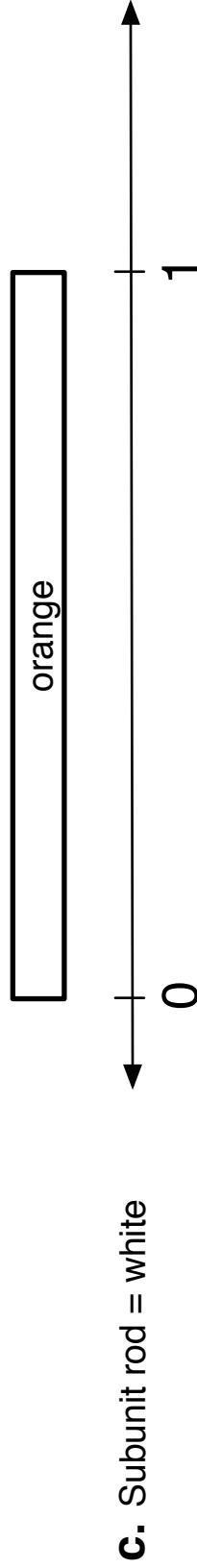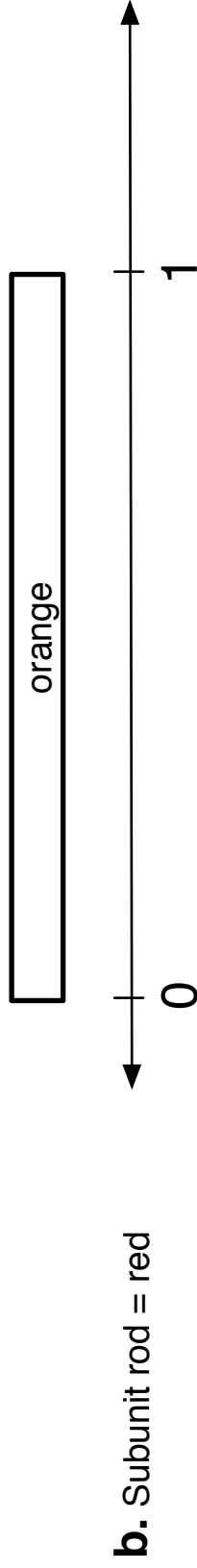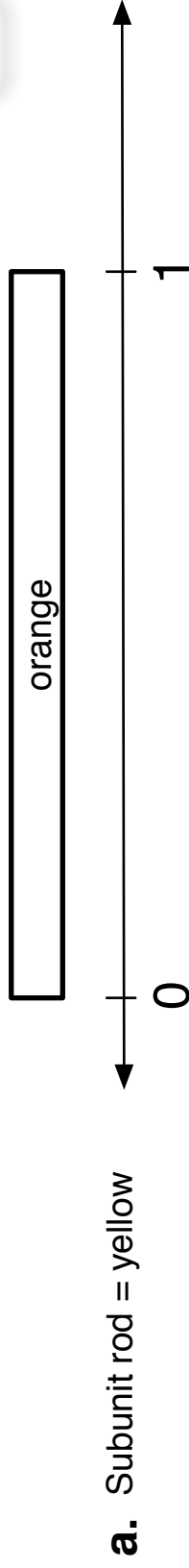
true false

☐ ☐ $\frac{1}{4}$ > $\frac{1}{3}$

2. What fractions belong in the boxes?   (RODS)

| orange |
| red | red | red | red | red |

0   1

How many subunits are in the unit? _____

3. For each number line, divide the unit interval into different subunits and label the tickmarks with fractions. The <u>orange rod is the unit.</u>

(RODS)

a. Subunit rod = yellow

| orange |

0 — 1

b. Subunit rod = red

| orange |

0 — 1

c. Subunit rod = white
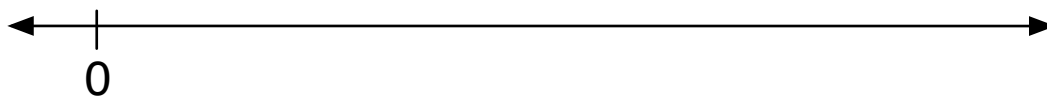
| orange |

0 — 1

Is the sentence below correct? Mark your answer in the box.

☐ yes   ☐ no

The greater the denominator, the longer the subunit.

4. Mark the length of $\frac{2}{3}$ of a blue C-rod on the number line.   (RODS)

|———————————————————————————————▶
0

What color rod is your unit?   _____

What color rod is your subunit?   _____

6.

Start

RODS

1 mile = 1 orange

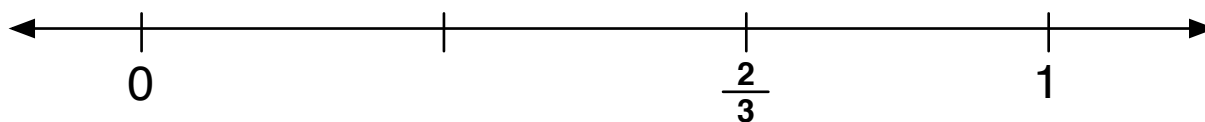0   1
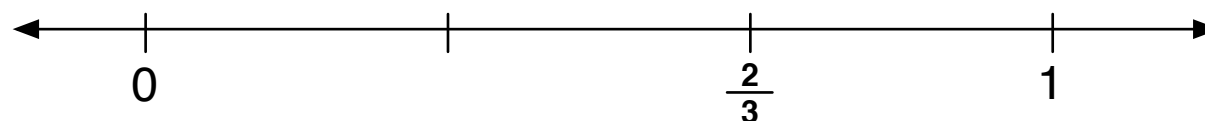
What fraction of a mile did Jalia run? _____

What color did you use as a subunit? _____ How many subunits fit in the unit? _____
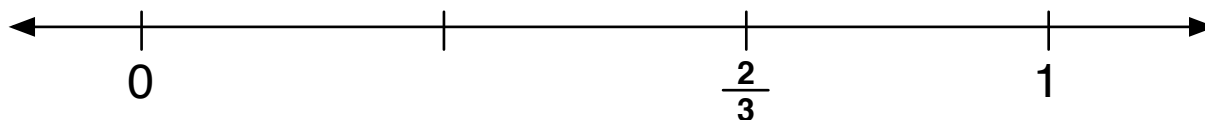
10. Circle an equivalent fraction for $\frac{2}{3}$. You can add tickmarks and numbers. (RODS)

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

$\frac{2}{9}$ $\frac{6}{9}$ $\frac{6}{3}$

0     $\frac{2}{3}$ 1
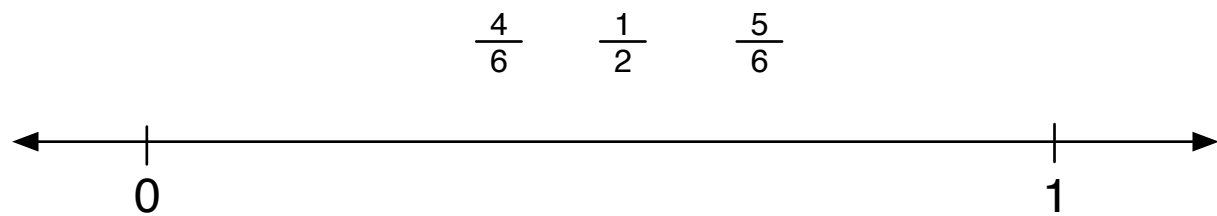
$\frac{2}{9}$ $\frac{6}{9}$ $\frac{6}{3}$

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

$\frac{2}{9}$ $\frac{6}{9}$ $\frac{6}{3}$

14. a. Place the fractions on the line. You can add tickmarks and numbers.

$$\frac{4}{6} \qquad \frac{1}{2} \qquad \frac{5}{6}$$

0   1

b. True or false?   true false

$$\frac{4}{6} \quad > \quad \frac{1}{2}$$