Name _____

Another Look!

Joe's cat, Tiger, is $2\frac{1}{6}$ feet long. Casey's cat, Fluffy, is $\frac{3}{6}$ yard long. Which cat is longer? How much longer?

Be precise and use the correct units.

Step 1

Change Fluffy's length to feet and compare.

$$\frac{3}{6} \times 3 = \frac{3 \times 3}{6}$$
$$= \frac{9}{6} = \frac{6}{6} + \frac{3}{6} = 1\frac{3}{6}$$

Fluffy is $1\frac{3}{6}$ feet long.

Compare the lengths.
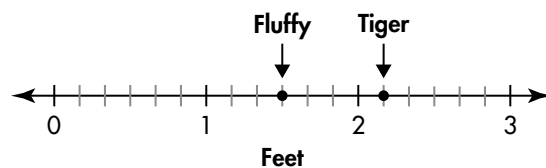
$$2\frac{1}{6} > 1\frac{3}{6}$$

Tiger is longer.

Step 2

Find the difference. Use a linear model to help.

Fluffy   Tiger

```
←+++++++++++++++++●+++●+++++++→
  0       1       2       3
            Feet
```

$$2\frac{1}{6} = 1 + \frac{6}{6} + \frac{1}{6} = 1\frac{7}{6}$$
$$2\frac{1}{6} - 1\frac{3}{6} = 1\frac{7}{6} - 1\frac{3}{6} = \frac{4}{6}$$

Tiger is $\frac{4}{6}$ foot longer than Fluffy.

In **1–3**, write > or < in each ◯ to compare the measures.

1. 8 inches ◯ 8 feet

2. 5 yards ◯ 12 feet

3. 3 yards ◯ 90 inches

For **4–7**, convert each unit.

4. 25 feet = _____ inches

5. 3 miles = _____ feet

6. $\frac{1}{2}$ yard = _____ inches

7. 57 yards = _____ inches

For **8–9**, complete each table.

8.

Feet	Inches
2	
4	
6	
8	

9.

Yards	Inches
1	
2	
3	
4	

For **10–12**, use the picture at the right.

Width of handlebars: 2 ft

10. Be Precise How many more feet is the length of the bike than the height of the bike?

**Height of bike: $2\frac{1}{2}$ ft**

11. What is the width of the tire in inches?

12. Each handle is $\frac{1}{4}$ the width of the handlebars. How many inches long is each handle?

**Width of tire: $\frac{1}{6}$ ft**

Length of bike: 5 ft

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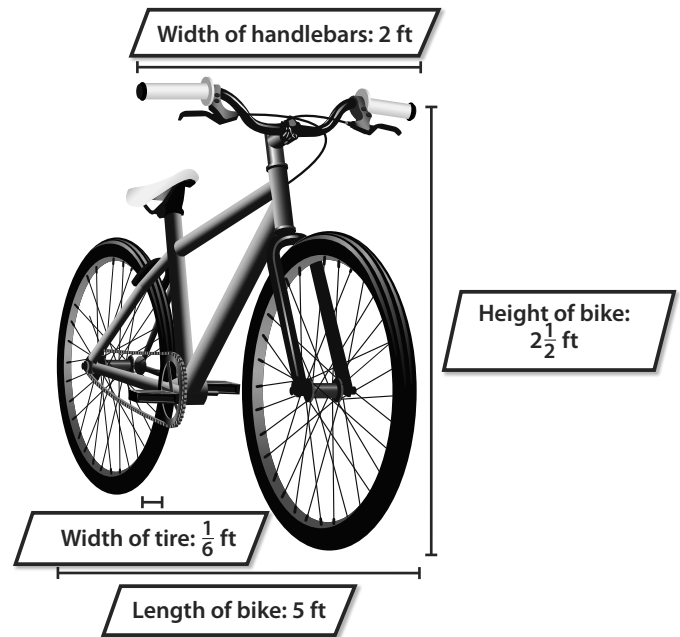
13. Make Sense and Persevere Harriet rode her bike $2\frac{1}{4}$ miles to the mall. She then rode $\frac{3}{4}$ mile to the grocery store. She came back the way she went. How many miles did Harriet ride in all? Explain.

14. Higher Order Thinking Use the linear model. What fraction of 1 foot is 3 inches? What fraction of 1 yard is 3 inches? Explain.

```
0   3   6   9 12 in.                1 yd
            1 ft        2 ft        3 ft
```
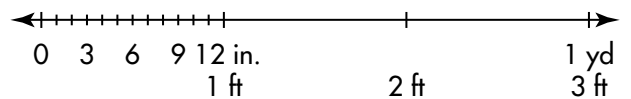
Assessment Practice

15. Vulkan jumped $\frac{7}{8}$ yard and then $2\frac{7}{8}$ feet. How many feet did he jump in all? Show both measures with points on the number line. **4.MD.1.2**

```
0        1        2        3
         Feet
```
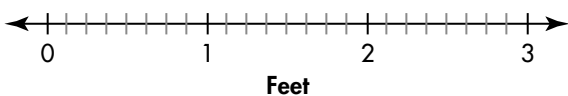
☐ feet

16. A medium sandwich at Heidi's Heros is $\frac{5}{8}$ foot long. A small sandwich is $4\frac{7}{8}$ inches. How many inches longer is the medium than the small? **4.MD.1.2**

Ⓐ $2\frac{5}{8}$ inches

Ⓑ $2\frac{7}{8}$ inches

Ⓒ $3\frac{3}{8}$ inches

Ⓓ $4\frac{2}{8}$ inches