Lesson 10.1

Customary Length

Convert.

1. \(12 \text{ yd} = \frac{36}{3} \text{ ft}\)
2. \(5 \text{ ft} = \text{_______ in.}\)
3. \(5 \text{ mi} = \text{_______ ft}\)

\[
\begin{align*}
\text{total yards} & \quad \times \quad \text{feet in 1 yard} \\
12 & \quad \times \quad 3
\end{align*}
\]

\(= 36 \text{ feet}\)

4. \(240 \text{ in.} = \text{_______ ft}\)
5. \(100 \text{ yd} = \text{_______ ft}\)
6. \(10 \text{ ft} = \text{_______ in.}\)

7. \(150 \text{ in.} = \text{_______ ft in.}\)
8. \(7 \text{ yd 2 ft} = \text{_______ ft}\)
9. \(10 \text{ mi} = \text{_______ ft}\)

Compare. Write <, >, or =.

10. \(23 \text{ in.} \bigcirc 2 \text{ ft}\)
11. \(25 \text{ yd} \bigcirc 75 \text{ ft}\)
12. \(6,200 \text{ ft} \bigcirc 1 \text{ mi 900 ft}\)

13. \(100 \text{ in.} \bigcirc 3 \text{ yd 1 ft}\)
14. \(1,000 \text{ ft} \bigcirc 300 \text{ yd}\)
15. \(500 \text{ in.} \bigcirc 40 \text{ ft}\)

Problem Solving

16. Marita orders 12 yards of material to make banners. If she needs 1 foot of fabric for each banner, how many banners can she make?

17. Christy bought an 8-foot piece of lumber to trim a bookshelf. Altogether, she needs 100 inches of lumber for the trim. Did Christy buy enough lumber? Explain.
Lesson Check (CC.5.MD.1)

1. Jenna’s garden is 5 yards long. How long is her garden in feet?
   - A 60 feet
   - B 15 feet
   - C 8 feet
   - D 2 feet

2. Ellen needs to buy 180 inches of ribbon to wrap a large present. The store sells ribbon only in whole yards. How many yards does Ellen need to buy to have enough ribbon?
   - A 3 yards
   - B 4 yards
   - C 5 yards
   - D 6 yards

Spiral Review (CC.5.OA.3, CC.5.NBT.6, CC.5.NF.4a)

3. McKenzie works for a catering company. She is making iced tea for an upcoming event. For each container of tea, she uses 16 tea bags and 3 cups of sugar. If McKenzie uses 64 tea bags, how many cups of sugar will she use? (Lesson 9.6)
   - A \( \frac{3}{4} \) cup
   - B 4 cups
   - C 8 cups
   - D 12 cups

4. Javier bought 48 sports cards at a yard sale. Of the cards, \( \frac{3}{4} \) were baseball cards. How many cards were baseball cards? (Lesson 7.1)
   - A 48
   - B 18
   - C 6
   - D 3

5. Which is the quotient of 396 divided by 12? (Lesson 2.6)
   - A 31
   - B 33
   - C 36
   - D 38

6. What is the unknown number in Sequence 2 in the chart? What rule can you write that relates Sequence 2 to Sequence 1? (Lesson 9.5)
   - A 40; Multiply by 1.
   - B 60; Add 20.
   - C 80; Multiply by 2.
   - D 20; Divide by 2.

<table>
<thead>
<tr>
<th>Sequence Number</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>8</th>
<th>10</th>
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<td>4</td>
<td>8</td>
<td>12</td>
<td>32</td>
<td>40</td>
</tr>
<tr>
<td>Sequence 2</td>
<td>8</td>
<td>16</td>
<td>24</td>
<td>64</td>
<td>?</td>
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