

Independent Practice

12.4

NAME _____

Module 12 Attributes and Tools
Lesson 4 Measurement: Distance

Use a ruler for Problems 1 – 5.

1. Find the length of the line segment to the nearest quarter inch.

2. Find the length of the line segment to the nearest centimeter.

3. Find the length of the line segment to the nearest millimeter.

4. Draw a line segment that is $5\frac{3}{8}$ inches long.

5. Draw a line segment that is 44 millimeters long.

Add.

6.
$$\begin{array}{r} 10 \text{ ft } 8 \text{ in.} \\ + 8 \text{ ft } 6 \text{ in.} \\ \hline \end{array}$$

7.
$$\begin{array}{r} 4 \text{ ft } 10 \text{ in.} \\ + 3 \text{ ft } 11 \text{ in.} \\ \hline \end{array}$$

8.
$$\begin{array}{r} 17 \text{ yd } 1 \text{ ft} \\ 15 \text{ yd } 2 \text{ ft} \\ + 4 \text{ yd } 2 \text{ ft} \\ \hline \end{array}$$

9.
$$\begin{array}{r} 4 \text{ yd } 2 \text{ ft } 7 \text{ in.} \\ + 12 \text{ yd } 2 \text{ ft } 9 \text{ in.} \\ \hline \end{array}$$

10.
$$\begin{array}{r} 22 \text{ mm} \\ + 15 \text{ cm } 119 \text{ mm} \\ \hline \end{array}$$

11.
$$\begin{array}{r} 18 \text{ cm } 14 \text{ mm} \\ 29 \text{ cm} \\ 7 \text{ cm } 71 \text{ mm} \\ + 13 \text{ cm } 25 \text{ mm} \\ \hline \end{array}$$

Subtract.

12.
$$\begin{array}{r} 18 \text{ ft } 5 \text{ in.} \\ - 7 \text{ ft } 8 \text{ in.} \\ \hline \end{array}$$

13.
$$\begin{array}{r} 12 \text{ ft } 4 \text{ in.} \\ - 7 \text{ ft } 11 \text{ in.} \\ \hline \end{array}$$

14.
$$\begin{array}{r} 19 \text{ yd } 1 \text{ ft} \\ - 11 \text{ yd } 2 \text{ ft} \\ \hline \end{array}$$

15.
$$\begin{array}{r} 15 \text{ yd } 2 \text{ ft } 3 \text{ in.} \\ - 10 \text{ yd } 2 \text{ ft } 11 \text{ in.} \\ \hline \end{array}$$

16.
$$\begin{array}{r} 104 \text{ cm } 25 \text{ mm} \\ - 82 \text{ cm } 84 \text{ mm} \\ \hline \end{array}$$

17.
$$\begin{array}{r} 36 \text{ cm} \\ - 15 \text{ cm } 54 \text{ mm} \\ \hline \end{array}$$

NAME _____

Module 12 **Attributes and Tools**
Lesson 4 **Measurement: Distance**

18. Jon is buying a new desk. The length of his old desk is four feet eight inches long. The new desk is five feet two inches long. How much greater is the length of the new desk?
19. Dylan swam 25 laps of a pool. Each lap is 50 meters. Greg swam 1.1 kilometers. Who swam the greater distance? How much greater?
20. Erin bought 221 yards of yarn. She used 110 yards 2 feet 11 inches to knit one sock. Does she have enough yarn left to knit the other sock? Explain.

Journal

1. Explain how to round the measurement $4\frac{7}{8}$ inches to the nearest half-inch.
2. When adding distance measurements, when do you have to rename units in the sum? Give an example. When subtracting distance measurements, how do you know when to regroup? Give an example.
3. How is solving $57 - 49$ the same as subtracting 4 ft 9 in. from 5 ft 7 in.? How is it different?

Cumulative Review

Match each metric prefix to its power of ten equivalent.

- | | |
|-----------------|----------|
| _____ 1. centi- | A. 0.1 |
| _____ 2. deci- | B. 0.001 |
| _____ 3. kilo- | C. 1,000 |
| _____ 4. hecto- | D. 0.01 |
| _____ 5. milli- | E. 100 |

Fill in the blanks.

6. 3,500 lb = _____ T
7. 5,824 mg = _____ g
8. 16 h = _____ sec
9. 283 in. = _____ ft _____ in.
10. A centiliter is what fraction of a liter?
11. Laramie left for work at 6:32 A.M. She arrived at work at 7:17 A.M. How long was Laramie's commute to work?
12. Gracie and Malcolm both traveled from Washington, D.C. to Boston. Gracie went by plane and Malcolm went by train. It took Gracie 1 h 26 min and Malcolm 7 h 24 min. How much longer was Malcolm's trip?

Additional Work Area