Lesson 1-2 Linear Measure and Precision
Pages 17–19

1. Align the 0 point on the ruler with the leftmost endpoint of the segment. Align the edge of the ruler along the segment. Note where the rightmost endpoint falls on the scale and read the closest eighth of an inch measurement.

2. Sample answers: rectangle, square, equilateral triangle

3. $1\frac{3}{4}$ in.

4. 1.3 cm

5. 0.5 m; 14 m could be 13.5 to 14.5 m

6. $\frac{1}{8}$ in.; $3\frac{1}{4}$ in. could be $3\frac{1}{8}$ to $3\frac{3}{8}$ in.

7. 3.7 cm

8. $1\frac{3}{8}$ in.

9. $x = 3$; $LM = 9$

10. $x = 4$; $LM = 11$

11. $\overline{BC} \cong \overline{CD}$, $\overline{BE} \cong \overline{ED}$, $\overline{BA} \cong \overline{DA}$

12. $1\frac{5}{16}$ in.

13. 4.5 cm or 45 mm

14. 3.3 cm or 33 mm

15. $1\frac{1}{4}$ in.

16. $\frac{1}{2}$ in; $79\frac{1}{2}$ to $80\frac{1}{2}$ in.

17. 0.5 cm; 21.5 to 22.5 mm

18. $\frac{1}{4}$ in; $16\frac{1}{4}$ to $16\frac{3}{4}$ in.

19. 0.5 cm; 307.5 to 308.5 cm

20. 5 mm; 3745 to 3755 mm

21. $\frac{1}{8}$ ft; $3\frac{1}{8}$ to $3\frac{3}{8}$ ft

22. 29.5 mm

23. $1\frac{1}{4}$ in.

24. $1\frac{15}{16}$ in.

25. 2.8 cm

26. 2.4 cm

27. $1\frac{1}{4}$ in.

28. $a = 4$; $ST = 48$

29. $x = 11$; $ST = 22$

30. $x = 5$; $ST = 15$

31. $x = 2$; $ST = 4$

32. $y = 4$; $ST = 8$

33. $y = 2$; $ST = 3$

34. yes

35. no

36. no

37. yes

38. not from the information given