Carpentry & Building Construction

Chapter 25 Stairways

25.1 Section Assessment Answers

1. The vertical shaft inside of which a stairway is built.
2. Vertical boards that enclose the spaces between treads.
3. Cleat-stringer stairway, cut-stringer stairway, housed-stringer stairway.
4. If the risers are too high, climbing the steps can be difficult. If the treads are too shallow, toes will bump the riser at each step.
5. Answers will vary.

Section 25.2 Assessment Answers

1. The finished surface of one floor and the finished surface of the next floor.
2. Determining the unit rise and unit run per step.
3. Not to overcut intersecting cuts.
4. Adjustable metal brackets.
5. Unit rise = 7 in. Total rise = 7 × 15 = 105 in. 105 ÷ 12 = 8.75. The total rise is 8.75 feet, or 8 feet 9 inches. Unit run = 11 – 3/8 = 10 5/8 in. The run of the top step is 7 – 3/8 = 6 5/8 in. Total run = (14 × 10 5/8) + 6 5/8 = (14 × 10.625) + 6.625 = 155.375 = 12 ft. 11.375 in. The total run is 12 ft. 11 3/8 in.