Final Applications and Review

Final Review Quiz

Standards 6.SP.B.4, 6.G.A.1, 6.G.A.2, 6.SP.B.5c, 6.SP.B.5a, 6.SP.B.5b, 6.SP.B.5d

Learning target I can apply the skills taught so far, show my reasoning, and check my answers.

Assessment 5 open-response questions. Questions 1–1 review Unit 9; the remaining 4 assess this unit. Review accounts for exactly 20% of questions and points.

Administration

0–5 minutes Distribute only the attached student assessment pages. Read directions and confirm students have pencils, rulers, and extra plotting paper when needed. Ask for calculations, models, labels, and explanations where requested.

5–30 minutes Students complete the quiz independently. Follow the course policy of doing arithmetic by hand unless an established classroom accommodation applies.

Final minutes Collect responses and ask students to note one item they want to revisit. Use the remaining time for guided correction and explanation after collecting the initial responses.

Scoring and Feedback

4 points each, 20 total: 2 for method or model, 1 for an accurate result, 1 for requested units, explanation, or check. For a simple item, the final point rewards clear notation.

Score prior-unit review separately from current-unit work. Accept equivalent exact answers and valid alternate methods. For drawings, use the coordinate, face, frequency, or summary information in the attached key to check the representation.

Suggested follow-up based on current-unit items: 80% or above, continue with brief corrections; 60–79%, provide targeted small-group support; below 60%, reteach with models. These are instructional suggestions, not state proficiency cut scores.

Likely misconceptions Watch choosing the correct geometric measure and tying statistical statements to units and context.

Name _____ Date _____

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Standards assessed 6.SP.B.4, 6.G.A.1, 6.G.A.2, 6.SP.B.5c, 6.SP.B.5a, 6.SP.B.5b, 6.SP.B.5d

Questions 1–1 review Unit 9 (20%). The remaining questions assess this unit. Show work, simplify exact answers, label units, and justify models or explanations. 4 points per question; 20 points total.

1. [Review] Reading times in minutes are 7, 8, 8, 9, 9, 10. Draw a labeled dot plot. Check the number of dots.

2. [Current unit] A trapezoid has parallel bases 10 m and 14 m and perpendicular height 4 m. Sketch it and find its area.

3. [Current unit] A rectangular prism has edges 1, 3, and 4 cm. Sketch it and find its volume.

4. [Current unit] Reading times in minutes are 4, 5, 5, 6, 7, 16. Find the five-number summary and draw a labeled box plot. State the IQR.

5. [Current unit] Reading times in minutes are 5, 6, 6, 7, 8, 17. Write a summary with count, attribute, units, center, variability, shape, and a justified choice of measures.

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1. 7: 1 dot; 8: 2 dots; 9: 2 dots; 10: 1 dot; n = 6
Reasoning Each observation contributes one dot; stack repeated values at their number-line position.

2. 48 m²
Reasoning A = (10 + 14) × 4 ÷ 2 = 48.

3. 12 cm³
Reasoning B = 1 × 3 = 3 cm²; V = B × 4 = 12 cm³.

4. (4, 5, 11/2, 7, 16); IQR 2 min
Reasoning Box runs from 5 to 7, median line at 11/2, whiskers to 4 and 16.

5. 6 observations of reading time in minutes. Median 13/2 min, IQR 2 min; right-skewed with a high value 17 min, so median/IQR resist that value.
Reasoning Calculate the center and spread before interpreting them in context. Other accurate, justified summaries are acceptable.