Expressions and Equivalence

Quiz 2

Standards 6.NS.C.7c, 6.NS.C.7d, 6.EE.A.2b, 6.EE.A.2a, 6.EE.B.6, 6.EE.A.2c

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 5; 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 exponents versus multiplication, operation order, and distributing to every term.

Name _____ Date _____

Expressions and Equivalence

Quiz 2

Standards assessed 6.NS.C.7c, 6.NS.C.7d, 6.EE.A.2b, 6.EE.A.2a, 6.EE.B.6, 6.EE.A.2c

Questions 1–1 review Unit 5 (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] Find |-15|. Explain the distance meaning.

2. [Current unit] For 5x + 2y + 2, list terms, coefficients, and the constant.

3. [Current unit] Write an expression for 5 times the sum of x and 5.

4. [Current unit] A ticket costs $4. A group buys n tickets and pays a single $3 booking fee. Define n and write the total-cost expression. Evaluate it for n = 6.

5. [Current unit] A rectangle has length x + 4 and width 4. Use A = lw to write its area expression and find A when x = 6.

Quiz 2

Expressions and Equivalence

1. 15
Reasoning -15 is 15 units from 0; distance is nonnegative.

2. Terms 5x, 2y, 2; coefficients 5, 2; constant 2
Reasoning Terms are separated by addition; coefficients multiply variables.

3. 5(x + 5)
Reasoning Group the sum before multiplying.

4. n = ticket count; 4n + 3; $27
Reasoning Ticket cost is 4 × n; add the one-time fee 3.

5. A = 4(x + 4); 40 square units
Reasoning Substitute x = 6: 4(6 + 4) = 40.