Whole Numbers and Decimals

Quiz 2

Standards Grade 5 prerequisite, 6.NS.B.3

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 Grade 5 prerequisites; 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 decimal place alignment, quotient zero digits, and the difference between GCF and LCM.

Name _____ Date _____

Whole Numbers and Decimals

Quiz 2

Standards assessed Grade 5 prerequisite, 6.NS.B.3

Questions 1–1 review Grade 5 prerequisites (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] Use long division: 84 ÷ 3. Show the algorithm and check.

2. [Current unit] Use the standard algorithm: 3.07 × 8.6. Show your regrouping or division steps.

3. [Current unit] Use the standard algorithm: 1.31 × 4.1. Show your regrouping or division steps.

4. [Current unit] Use the standard algorithm: 3.2 ÷ 0.4. Show your regrouping or division steps.

5. [Current unit] A container has 0.795 kg of seed. Each bag holds 0.15 kg. How many bags can be filled?

Quiz 2

Whole Numbers and Decimals

1. 28
Reasoning 8 ÷ 3: write 2, subtract 6, remainder 2; bring down the next digit: 24 ÷ 3: write 8, subtract 24, remainder 0. Check: 3 × 28 = 84.

2. 26.402
Reasoning Compute the whole-number product and restore decimal places: 3.07 × 8.6 = 26.402.

3. 5.371
Reasoning Compute the whole-number product and restore decimal places: 1.31 × 4.1 = 5.371.

4. 8
Reasoning Multiply both numbers by 10: 32 ÷ 4 = 8. Check: 0.4 × 8 = 3.2.

5. 5.3 bags
Reasoning Multiply both numbers by 100: 79.5 ÷ 15 = 5.3. Check: 0.15 × 5.3 = 0.795.