# Benchmark Tasks Grid

| | A (Grade 4 tasks) | B (Grade 7 tasks) | C (Grade 6 tasks) |
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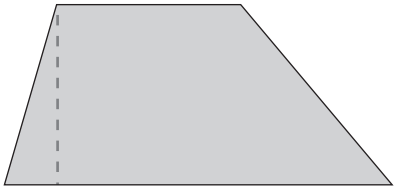
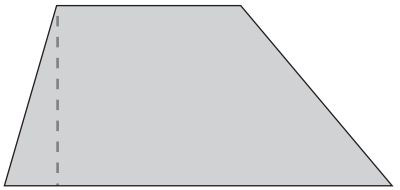
| **4** | Write word problems for 26 divided by 4 where:<br>• The answer would need to be 7.<br>• The answer would need to be 6.<br>• You would need the exact answer.<br>How are the three situations the same and how are they different? How is it possible to get a different answer to the same division problem? | What is the new net worth? Create two representations to make sense of the following scenarios. Describe how each of your representations models the mathematics in the situation.<br>Rich began with a net worth of $700,000 but then made a very bad investment and lost $900,000. What is his new net worth?<br>Notta began with a net worth of –$100,000 and then got a loan for $400,000 and spent the money to start a business writing screenplays. (a) What is her new net worth? (b) Notta then sold 6 different screenplays for $200,000 each. What is her new net worth?<br>Ida began with a net worth of –$300,000. She took out 4 loans at $100,000 each to lend money to each of her 4 daughters to attend law school. What is her new net worth? | A trapezoid is shown below. Using any combination of rectangles, parallelograms, and triangles, determine a formula for the area of this trapezoid. Justify why your formula works.<br>  |
| **3** | Write a word problem for 26 divided by 4 that results in an answer of 7. Do not use the words *around*, *estimate*, or *about*. | What is the new net worth? Make sense of the following scenarios using a vertical number line.<br>Rich began with a net worth of $700,000 but then made a very bad investment and lost $900,000. What is his new net worth?<br>Notta began with a net worth of –$100,000 and then got a loan for $400,000 and spent the money to start a business writing screenplays. (a) What is her new net worth? (b) Notta then sold 6 different screenplays for $200,000 each. What is her new net worth?<br>Ida began with a net worth of –$300,000. She took out 4 loans at $100,000 each to lend money to each of her 4 daughters to attend law school. What is her new net worth? | A trapezoid is shown below. Using any combination of rectangles, parallelograms, and triangles, determine a formula for the area of this trapezoid. Once you find one way, see if you can find another way.<br>  |

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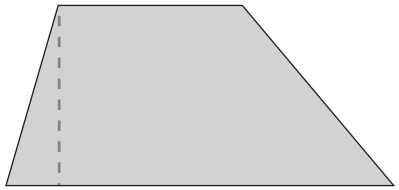
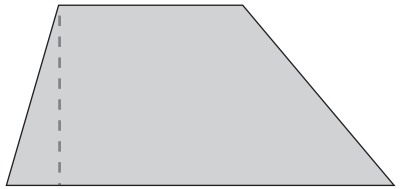
| **2** | Divide:<br>26 ÷ 4 → _____ R _____<br>17 ÷ 5 → _____ R _____<br>43 ÷ 6 → _____ R _____ | Solve:<br>700,000 – 900,000 =<br>–100,000 – 400,000 =<br>–500,000 + 600,000 =<br>Challenge: –300,000 + 4(–100,000) = | Using the formula, find the area of the trapezoid.<br>  |
| **1** | For the following problems, underline the **divisor**, circle the **dividend**, put a square around the **quotient**, and put a triangle around the **remainder**.<br>$4\overline{)26}$ 6 R 2<br>$5\overline{)17}$ 3 R 2 | Copy in your notes the rules for determining the sign of the sum of two integers:<br>a. Positive + Positive → Positive<br>b. Negative + Negative → Negative<br>c. Positive + Negative or Negative + Positive →<br>Sign of the integer with the larger absolute value | What is the formula for the area of a trapezoid?<br>  |

*Source: Questions adapted from Dixon, Nolan, Adams, Tobias, & Barmoha, 2016, p. 60; Nolan, Dixon, Roy, & Andreasen, 2016, pp. 36, 105.*