

If  $r + s = t$  and  $x = y$ , which of the following must be true?

- |   |                     |
|---|---------------------|
| F | $r + s - x = y - t$ |
| G | $r + s - t = x + y$ |
| H | $r + s + t = x - y$ |
| J | $r + s + x = t + y$ |

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Patti works as a waitress. She earns \$4.50 per hour plus tips and serves an average of 6 customers per hour. If Patti earned \$108 during an 8-hour shift, which amount best represents the average tip per customer?

- |   |         |
|---|---------|
| A | \$4.00  |
| B | \$1.50  |
| C | \$3.00  |
| D | \$13.50 |

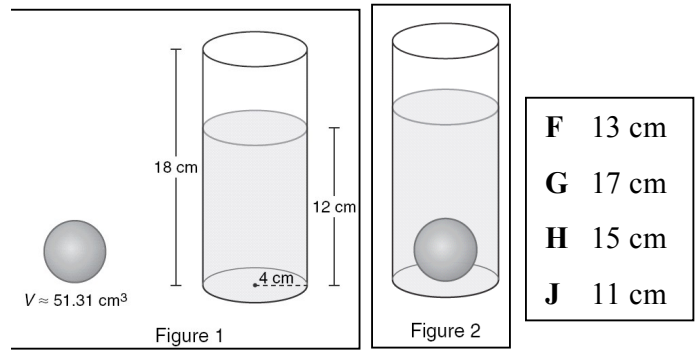
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For each grading period Mr. Brown gives his students one project and two tests. The project counts as 20% of the students' final grade, and the mean of the 2 test scores counts as the rest of their grade. In Mr. Brown's class Anthony earned a grade of 87 on his first test and a grade of 96 on his second test. Which of the following is a reasonable minimum grade Anthony must score on his project in order to have a final grade of at least 90?

- |   |    |   |    |
|---|----|---|----|
| A | 66 | B | 84 |
| C | 87 | D | 92 |

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Look at the solid sphere and the cylinder containing water shown in Figure 1. Figure 2 shows the sphere submerged in the water inside the cylinder. Which is closest to the height of the water level in Figure 2?



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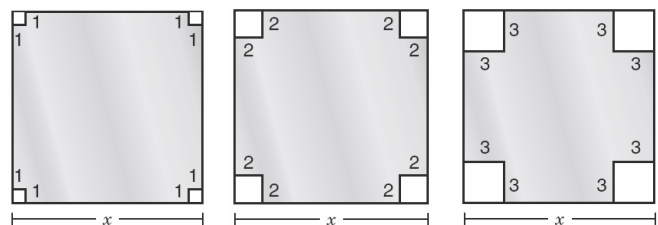
The spreadsheet below contains 20 cells. A cell in a spreadsheet can be identified first by the column letter and then by the row number. For example, the number 10 is found in Cell C4. If the number in Cell A3 = B4 - 3(E2 + D4), which of the following must be the number in Cell E2?

|   | A  | B  | C  | D | E   |
|---|----|----|----|---|-----|
| 1 | 6  | -3 | 7  | 1 | 5   |
| 2 | 12 | -4 | 8  | 2 |     |
| 3 | 18 | -5 | 9  | 3 | -35 |
| 4 | 24 | -6 | 10 | 4 |     |

|   |     |
|---|-----|
| F | -21 |
| G | -15 |
| H | -4  |
| J | -12 |

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Four square pieces are cut from the corners of a square sheet of metal. As the size of the small squares increases, the remaining area decreases, as shown below.



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