VOLUME OF A CONE – CONSTRUCTED RESPONSE QUESTION

Four students wrote expressions to describe the volume of a cone. The cone has a height of 15 cm and a diameter of 8 cm. Each student made a different mistake. What mistake did each student make?

Dan used Jason used

Lucia used Yolanda used

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| Dan forgot to multiply by . Remember, multiplying by is the same as dividing by 3.  Jason did not square the radius. It should read.  Lucia squared the diameter instead of the radius. She must divide the diameter by 2 to get the radius which is 4.  Yolanda squared the height instead of the radius. |