**Silly Sally Error Analysis Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**



Sally is a silly little girl that makes silly mistakes! **CHOOSE ANY 4 PROBLEMS BELOW**. Analyze her work in Column #1, and *circle her mistake*. In Column #2, explain what she did wrong. In Column #3, show how Silly Sally should work out the problem. Show ALL work!

|  |  |  |
| --- | --- | --- |
| **Silly Sally’s Work****(Circle her mistake):** | **What did Silly Sally do wrong?** | **Show Silly Sally how it’s done!** **(Show ALL steps!)** |
|   V = l w h 4 • 4 • 4 4 m 12 m³ |  |   |
|  2 mm V = l w h ½ mm 8 • ½ • 2  8mm 4 • 2 8 mm² |  |  |
|  V = l w h $\frac{2}{3}$•$\frac{2}{3}$ •$\frac{2}{3}$ $\frac{4}{6}$•$\frac{2}{3}$ Cube = 2/3 in. tall $\frac{6}{9}$ $\frac{2}{3}$ in³ |  |  |
|  V = l w h 8 ¼ yd 8 ¼ • 2 ½ • 3  16  • 3 2 ½ yd 48yd³3 yd |  |  |
|  V = l w h 4 ½ yd 4 ½ •1 ½ •2  $\frac{8}{2}$ • $\frac{3}{2}$ • 2 1 ½ yd $\frac{24}{4}$ • 2 2 yd 6 • 2   12 yd³ |  |  |

**\*\* Choose ONE Extension Problem, and complete it on the back of this sheet. \*\***

**Ext. A**: A rectangular box has a volume of 180 in³. What are its possible dimensions (length, width, and height)?

**Ext. B**: A rectangular prism has a volume of 200 cm³. If the length is 20 cm and the width is 2 ½ cm, what is the height?

**Silly Sally Error Analysis Name: ANSWER KEY!**



Sally is a silly little girl that makes silly mistakes! **CHOOSE ANY 4 PROBLEMS BELOW**. Analyze her work in Column #1, and *circle her mistake*. In Column #2, explain what she did wrong. In Column #3, show how Silly Sally should work out the problem. Show ALL work!

|  |  |  |
| --- | --- | --- |
| **Silly Sally’s Work****(Circle her mistake):** | **What did Silly Sally do wrong?** | **Show Silly Sally how it’s done!** **(Show ALL steps!)** |
|   V = l w h 3 • 4  4 m 12 m³ | Didn’t multiply 4 x 4 x 4 | 64 cubic meters |
|  2 mm V = l w h ½ mm 8 • ½ • 2  8mm 4 • 2 8 m² | Answer is in square meters (area) | 8 cubic meters |
|  V = l w h $\frac{2}{3}$•$\frac{2}{3}$ •$\frac{2}{3}$ $\frac{4}{6}$•$\frac{2}{3}$ Cube = 2/3 in. tall $\frac{6}{9}$ $\frac{2}{3}$ in³ | Added instead of multiplied; or, multiplied incorrectly | 8/27 cubic inches |
|  V = l w h 8 ¼ yd 8 ¼ • 2 ½ • 3  16 1/8 • 3 2 ½ yd 48 1/8 yd³3 yd | 8 ¼ x 2 ½ does not give a product of 16 1/8. It looks like whole numbers and fractions were multiplied separately, but they should’ve been converted to improper fractions in order to multiply. | 61 7/8 cubic yards |
|  V = l w h 4 ½ m 4 ½ •1 ½ •2  $\frac{8}{2}$ • $\frac{3}{2}$ • 2 1 ½ m $\frac{24}{4}$ • 2 2 m 6 • 2   12 m³ | Incorrectly changed 4 ½ to an improper fraction… should’ve been 9/2 instead of 8/2 | 13 ½ cubic meters |

**\*\* Choose ONE Extension Problem, and complete it on the back of this sheet. \*\***

**Ext. A**: A rectangular box has a volume of 180 in³. What are its possible dimensions (length, width, and height)?

**Ext. B**: A rectangular prism has a volume of 200 cm³. If the length is 20 cm and the width is 2 ½ cm, what is the height?  **4 cm**