

Unit 3: Logic and Reasoning Lesson 3.3

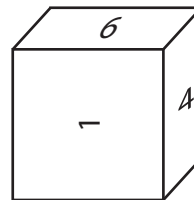
Coach's Corner – VI

1. Fill in the blanks for the following long division.

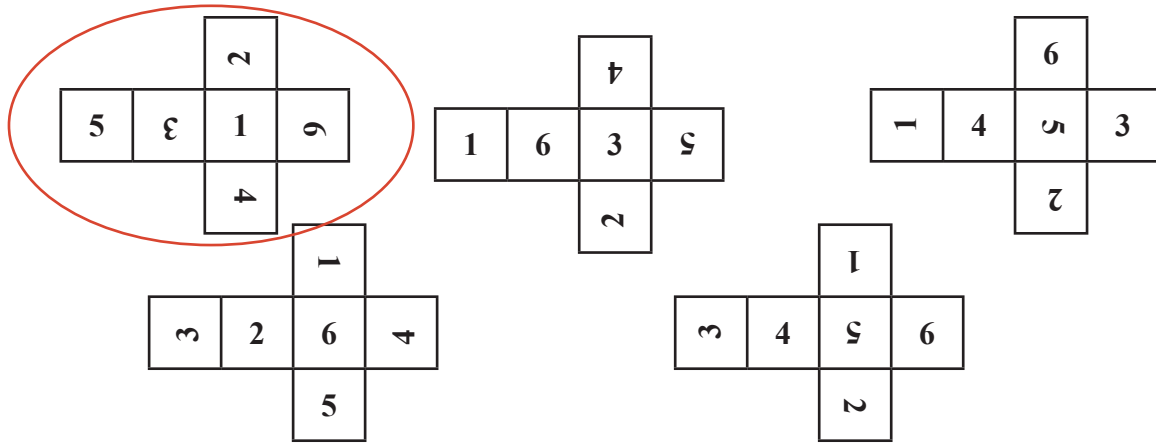
$$\begin{array}{r}
 \boxed{1} \boxed{2} 9 \\
 \boxed{3} \overline{) 387} \\
 \underline{3} \\
 8 \\
 \underline{6} \\
 27 \\
 \underline{27} \\
 0
 \end{array}$$

Strategies will vary. Try starting at the beginning of the problem as well as at the end.

2. Consider the following cube.



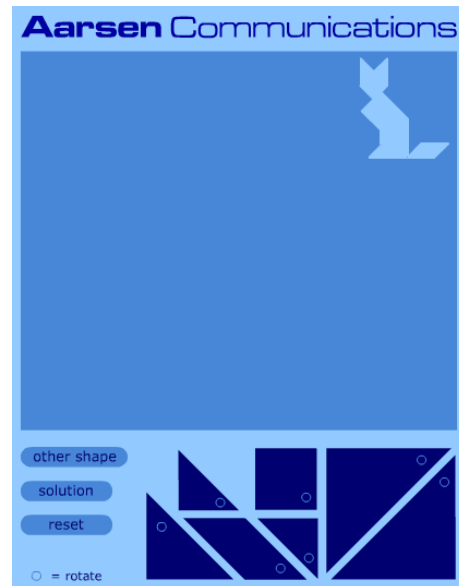
Which of the following nets could have been used to make the cube? Explain.



Strategies will vary. Some suggestions:

- Rule out nets that will not allow 4, 1, and 6 to touch.
- Check the alignment of the numbers.
- Form the cube from each net and see which one will form the cube shown.

3. Tangrams are a type of puzzle where you try to make a given shape using all of the smaller tiles. Try working with them at (<http://www.sonarweb.co.uk/cc/tangram.swf>).



Explain how reasoning can be used to help you solve a tangram puzzle.

Responses will vary. Explaining that you can eliminate certain possibilities or that some shapes must go in particular spots are good starting points.

Please complete *Lesson 3.3 Game On!*, *Unit 3 Time Out*, *Final Review Assignment*, and *Check Point* located in *Workbook 3B*.