

Daily Dilemma #11: Activity

Name _____

Date _____

1. Bryan, a printer in colonial Virginia, was placing ads in his newspaper. He decided to use congruent shapes in each set of ads. Which set(s) of shapes would Bryan use? Explain your answer by telling why the shapes are congruent. (5pts)



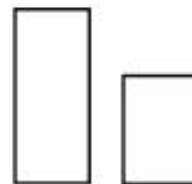
A.



B.



C.



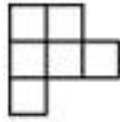
D.

Explanation: _____

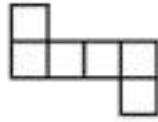
2. Benjamin Franklin was creating bifocals. As he made the lenses, he put ***half*** of them on a shelf and then put ***one third*** of the remaining lenses in a drawer. He put 3 lenses in the drawer. How many lenses did Ben Franklin make? (2 pts.)

Work: _____

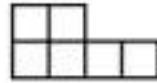
3. Mercy, a young lady who lived in the Piedmont in North Carolina, had a favorite crystal given to her by her mother. The crystal was in the shape of a cube. Which of the following would she be able to use to create a package to hold her crystal cube? (6 pts)



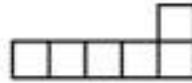
A.



B.



C.



D.

Draw another net for her cube here.

Explain why your choice(s) would hold a cube. _____

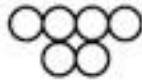
Why would your non-choices not hold a cube? _____

4. Sanjeet lives on the jagged coastline in New England where he was responsible for collecting clams for the family's dinner. When dinner was over he had some time to play, so he made a pattern in the sand with the clam shells. On the first row, there were 2 shells. After adding the second row of 4, there were 6 shells altogether. After adding the third row of 6, there were 12 shells altogether. If he continued the pattern, how many shells were in the ***fifth*** row? How many shells were there altogether? (4 pts.)

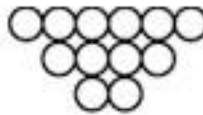
Work: _____ row 5 _____ total



1 row



2 rows



3 rows

5. Evan's family read a pamphlet advertising free land in Pennsylvania, so they decided to leave Ireland to have a better life. Evan was in charge of making a pen to hold his horse during the trip. The floor of the pen was 10 ft. long and 6 ft. wide. He placed vertical bars every 2 ft. along the edges of the floor of the pen. How many bars did Evan use when he built the pen for his horse? (3 pts)

Work:

Answer: _____