Arranging Yummy Doggy Treats in Boxes

Table of Treats, Student Sheet 1

Name: _____   **Date:** _____

Number of treats	Dimensions of the Bases of the Boxes	Number of Boxes	Factors	Next 5 Multiples
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

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Table of Treats, Student Sheet 2

Name:_____   **Date:**_____

Number of treats	Dimensions of the Bases of the Boxes	Number of Boxes	Factors	Next 5 Multiples
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				

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Table of Treats, Student Sheet 3

Name: _____   **Date:** _____

Number of treats	Dimensions of the Bases of the Boxes	Number of Boxes	Factors	Next 5 Multiples

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Discussion Questions, Student Sheet 4 (optional)

Name: _____   **Date:** _____

1. Look at your table and record 5 patterns or results you find interesting.

    a. _____

        _____

    b. _____

        _____

    c. _____

        _____

    d. _____

        _____

    e. _____

        _____

2. In the table, circle 2, 3, 5, and 7 numbers of treats with a red pencil. What do these numbers have in common?

_____

_____

3. These numbers are called **prime numbers**. There are more prime numbers from 1 to 40. In the table, find the other numbers of treats that are prime numbers and circle them with your red marker. Then list the prime numbers from 1 to 40.

_____

_____

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Student Sheet 4b (optional)

Name: _____   **Date:** _____

4. In the table, circle 4, 6, 8, and 9 numbers of treats with a black pencil. What do these numbers have in common?

_____

_____

5. These numbers are called **composite numbers.** In the table, find the numbers of treats from 1 to 40 that are composite numbers and circle them with a black pencil. Then list the composite numbers from 1 to 40.

_____

_____

6. . What number has not been circled? _____

This number is neither prime nor composite. Why?

_____

_____

Extension Questions:

7. Find the next 5 prime numbers greater than 40.

_____

_____

8. Find the next 5 composite numbers greater than 40.

_____

_____

9. Challenge, find all of the factors of the numbers you have listed in questions 7 and 8? Record them on a separate piece of paper.