Name _____   Date _____

Filling Containers

Predict which container has the greatest capacity. Determine if your prediction is correct.

1   We predict the _____ container has the greatest capacity.

2   Use the workspace to record your thinking as you complete the Investigation.

3   **Discuss** 💬

Was your prediction correct? How do you know?

Volume Formulas

Cube	$V = s \times s \times s$
Rectangular prism	$V = \ell \times w \times h$ or $V = Bh$

Find the Matches

✂-- **Directions:** Make enough copies so that each group receives 1 complete set of Set 1 cards. Pre-cut the Set 1 cards and distribute them. Sets 2–4 are provided in case students finish working with Set 1 and have time to work with another set.

Set 1, Clue card A

- This number is composite.
- 3 is a factor of this number.
- This number is odd.
- 108 is a multiple of this number.

Find the Matches

Set 1, Clue card B

- This number is prime.
- 4 is a multiple of this number.
- This number is even.

Find the Matches

Set 1, Clue card C

- This number is neither prime nor composite.
- 84 is a multiple of this number.
- This number is odd.

Find the Matches

Set 1

1

Find the Matches

Set 1

2

Find the Matches

Set 1

9

Find the Matches

Lesson Resources

Find the Matches

Set 2, Clue card D

- This number is prime.
- 44 is a multiple of this number.
- This number is *not* even.
- This number has 2 factors.

Find the Matches

Set 2, Clue card E

- This number is prime.
- This number has 2 factors.
- This number is odd.
- 51 is a multiple of this number.

Find the Matches

Set 2, Clue card F

- This number is prime.
- This number is odd.
- 35 is a multiple of this number.
- 7 is a factor of this number.

Find the Matches

Set 2

7

Find the Matches

Set 2

11

Find the Matches

Set 2

17

Find the Matches

Lesson Resources

Find the Matches

Set 3, Clue card G

- This number is composite.
- 4 is a factor of this number.
- 84 is a multiple of this number.
- This number has 6 factors.

Set 3, Clue card H

- This number is composite.
- This number has 6 factors.
- This number is *not* a multiple of 3.
- 64 is a multiple of this number.

Set 3, Clue card I

- This number is composite.
- 4 is a factor of this number.
- 72 is a multiple of this number.
- This number is a multiple of 6.

Set 3

28

Set 3

32

Set 3

36

Lesson Resources

Find the Matches

Set 4, Clue card J

- This number is composite.
- 9 is a factor of this number.
- 36 is a multiple of this number.
- This number is a multiple of 3.

Find the Matches

Set 4, Clue card K

- This number is prime.
- 52 is a multiple of this number.
- 13 is a factor of this number.
- This number is odd.

Find the Matches

Set 4, Clue card L

- This number is prime.
- 87 is a multiple of this number.
- 3 is *not* a factor of this number.
- This number is odd.

Find the Matches

Set 4

18

Find the Matches

Set 4

29

Find the Matches

Set 4

13

Find the Matches

Lesson Resources

Sentence Frames

_____ is a factor of my number.

_____ is a multiple of my number.

My number has _____ factors.

My number is *a* multiple of _____.

My number is *not* a multiple of _____.

_____ is *not* a factor of my number.

_____ is *not* a multiple of my number.

My number is prime.   My number is composite.   My number is neither.