

1

Use divisibility rules to determine if the number below is divisible by 2, 3, 4, 5, 6, 9 or 10.

- A) 2, 5, and 10
- B) 2, 3, 5, and 10
- C) 2, 3, 5, 6 and 10
- D) 2, 3, 4, 6 and 10
- E) 2, 3, 4, 6, 9 and 10

6

After completing her homework, Sarah noticed that 37 and 47 are only divisible by themselves and 1. She decides that if a number is only divisible by itself and 1, it must be prime. What is the next prime number after 47?

10

The schools below are entering a tennis tournament and need teams of exactly four players. What school could enter and have teams in which each student plays on exactly one team and there are no students left out?

School	Liberty	Central	Park Forest	Daleview	Mountain
Number of Participants	178	437	682	656	294

- A) Liberty wanted a hug
- B) Central are just cool like that
- C) Park Forest did not know any better
- D) Daleview were doing it for charity
- E) Mountain wanted to be rich

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Testing for

DIVISIBILITY

MATH LIB ACTIVITY



DIVISIBILITY RULES

"Math Lib" Activity!

Objective: To practice divisibility rules to determine whether a number is divisible by 2, 3, 4, 5, 6, 9, and 10. This activity includes various types of divisibility questions and word problems. Students will generate a funny story as they move through the stations.

Activity Directions: Print and post the ten stations around the room. Give each student the worksheet to record their work as they travel to the stations. Group students (I typically do groups of 3) and assign to a starting problem. Set the timer for 2-3 minutes (more if needed). Students solve the problem at the station, recording their work on their recording worksheet. They look for their answer and record the piece to the story on the math lib. When the timer goes off, they move to the next station.

You can edit each slide to change the teacher names and all story elements to personalize for your students. PowerPoint is required to edit the slides. They enjoy seeing which one of their teachers is the "star" of the story!

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1380

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B) 2, 4, 5, and 10
C) 2, 3, 5, 6, and 10
D) 2, 3, 4, 5, 6, and 10

6 After completing her homework, Sarah noticed that 37 and 47 are only divisible by themselves and 1. She decides that if a number ends in 7, it must be prime. Which of the following number disproves Sarah's theory?

spaceship
tank
locker room
light house
photo booth

10 The schools below are entering a tennis tournament and need teams of exactly four players. What school could enter and have teams in which each student plays on exactly one team and there are no students left over?

School	Liberty	Central	Park Forest	Daleview	Mountain
Number of Participants	178	437	682	656	294

A) Liberty
B) Central
C) Park Forest
D) Daleview
E) Mountain

10 Stations & Student Worksheet
(All story elements are editable!)

Directions: Solve the problem at each station. Identify the answer and fill in the blanks on the back to complete the story.

WRITE YOUR MATH LIB BELOW! :

(1) _____ was (2) _____
to let (3) _____ with
(4) _____ on (5) _____
in a (6) _____ in (7) _____ while