

Warmup

1. 475 students go to lunch at the same time. Each table seats 5 children. Will there be any tables with less than 5 students (assume that all students are present)?

2. The eighth grade students in River Oaks County Schools are taking a trip to Tennessee. The adult leaders separated the 237 students into groups of 3. How many groups of 3 are there? How any children are left over?

There are _____ groups of 3

There are _____ students left over.

3. A company produces 34,821 pencils each day. Each box holds 9 pencils. After filling as many boxes as possible, will there be left over pencils to box the following day?

4. Solve for x:

$$x - 4.73 = 10.77$$

Check

- I. Divisibility
- II. Using the Divisibility Tests with Large Numbers

Homeschool



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Pre-Algebra and Geometry I

Wendy Harper

www.HsHonorRoll.com

I. Divisibility

Is 64 divisible by:

2? _____ 3? _____ 4? _____

5? _____ 6? _____ 7? _____

8? _____ 9? _____ 10? _____

A number is divisible by an amount if it goes in evenly, no remainder.

Divisibility Rules:

Divisible By

Rule

2

The last digit is 0,2,4,6,8

3

The sum of the digits is divisible by 3

4

The last two digits are divisible by 4

5

The last digit is 0 or 5

6

The number is divisible by 2 and 3

7

There is no simple test, divide the number by 7.

8

The last three digits are divisible by 8

9

The sum of the digits is divisible by 9

10

The last digit is 0

Divisibility Rules:

Divisible By

Rule

2

The last digit is 0,2,4,6,8

5

The last digit is 0 or 5

10

The last digit is 0

Divisibility Rules:

Divisible By

Rule

3

The sum of the digits is divisible by 3

9

The sum of the digits is divisible by 9

Divisibility Rules:

Divisible By

Rule

4

The last two digits are divisible by 4

8

The last three digits are divisible by 8

Divisibility Rules:

Divisible By

Rule

2

The last digit is 0,2,4,6,8

3

The sum of the digits is divisible by 3

6

The number is divisible by 2 and 3

II. Using the Divisibility Tests with Large Numbers

Is 154,879,064 divisible by:

2? _____

3? _____

4? _____

5? _____

6? _____

7? _____

8? _____

9? _____

10? _____

