

## October 1, 2014 Period 3 Lesson 1.4

Lesson Objective: Students will be able to write divisibility rules for 2, 3, 5, 6, 9, and 10 and use the divisibility rules to help write the prime factorization of numbers.

# Warm Up

$$24 \overline{)1896}$$

$$31 \overline{)2914}$$

$$55 \overline{)1265}$$

$$73 \overline{)6497}$$

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# Warm Up Answers

$$\begin{array}{r} 79 \\ 24 \overline{)1896} \end{array}$$

$$\begin{array}{r} 94 \\ 31 \overline{)2914} \end{array}$$

$$\begin{array}{r} 23 \\ 55 \overline{)1265} \end{array}$$

$$\begin{array}{r} 89 \\ 73 \overline{)6497} \end{array}$$

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# Homework Answers

You did not have homework last night.  
Hope you enjoyed your night off!

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Lesson 1.4

October 1, 2014

## Essential Question:

Without dividing, how can you tell when a number is divisible by another number?

## Lesson Objective:

Students will be able to:

write divisibility rules for 2, 3, 5, 6, 9, and 10 and use the divisibility rules to help write the prime factorization of numbers.

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# Self-Evaluation Scale

Score	Description
4	I can teach other students how to write divisibility rules for 2, 3, 5, 6, 9, and 10 and use the divisibility rules to help write the prime factorization of numbers.
3	I can write divisibility rules for 2, 3, 5, 6, 9, and 10 and use the divisibility rules to help write the prime factorization of numbers.
2	I recognize, but still need help to write divisibility rules for 2, 3, 5, 6, 9, and 10 and use the divisibility rules to help write the prime factorization of numbers.
1	I do not know how to write divisibility rules for 2, 3, 5, 6, 9, and 10 and use the divisibility rules to help write the prime factorization of numbers.

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## Activity 1 & 2

With a partner, work on Activity 1 & 2 on page 24 of your Big Ideas Record Text Book.

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### 1 **ACTIVITY:** Finding Divisibility Tests for 2, 3, 5, and 10

**Work with a partner.**

	1	2	3	4	5	6	7	8	9	10
	11	12	13	14	15	16	17	18	19	20
	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40
	41	42	43	44	45	46	47	48	49	50

- Highlight all the numbers that are divisible by 2.
- Put a box around the numbers that are divisible by 3.
- Underline the numbers that are divisible by 5.
- Circle the numbers that are divisible by 10.
- STRUCTURE** In parts (a)–(d), what patterns do you notice? Write four rules to determine when a number is divisible by 2, 3, 5, and 10.



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**2** **ACTIVITY:** Finding Divisibility Rules for 6 and 9

**Work with a partner.**

- a. List ten numbers that are divisible by 6. Write a rule to determine when a number is divisible by 6. Use a calculator to check your rule with large numbers.
  
  
  
  
  
  
  
  
  
  
- b. List ten numbers that are divisible by 9. Write a rule to determine when a number is divisible by 9. Use a calculator to check your rule with large numbers.

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Homework

No Homework