

3.1 Divisibility Rules

Chapter 3: Factors, Multiples, and Fractions

Name: _____

Date: _____

Class/Period: _____

Problem 3.1 Directions:

For each number, list every value from

2, 3, 4, 5, 6, 9, 10

that divides it.

925

Problem 3.4 Directions:

For each number, list every value from

2, 3, 4, 5, 6, 9, 10

that divides it.

335

Problem 3.2 Directions:

For each number, list every value from

2, 3, 4, 5, 6, 9, 10

that divides it.

540

Problem 3.5 Directions:

For each number, list every value from

2, 3, 4, 5, 6, 9, 10

that divides it.

1,052

Problem 3.3 Directions:

For each number, list every value from

2, 3, 4, 5, 6, 9, 10

that divides it.

612

Problem 3.6 Directions:

For each number, list every value from

2, 3, 4, 5, 6, 9, 10

that divides it.

657

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Problem 3.7 Directions:

For each number, list every value from

2, 3, 4, 5, 6, 9, 10

that divides it.

705

Problem 3.10 Directions:

For each number, list every value from

2, 3, 4, 5, 6, 9, 10

that divides it.

448

Problem 3.8 Directions:

For each number, list every value from

2, 3, 4, 5, 6, 9, 10

that divides it.

1,328

Problem 3.11 Directions:

For each number, list every value from

2, 3, 4, 5, 6, 9, 10

that divides it.

981

Problem 3.9 Directions:

For each number, list every value from

2, 3, 4, 5, 6, 9, 10

that divides it.

843

Problem 3.12 Directions:

For each number, list every value from

2, 3, 4, 5, 6, 9, 10

that divides it.

1,504

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Problem 3.13 Directions:

For each number, list every value from

2, 3, 4, 5, 6, 9, 10

that divides it.

Find every digit that can replace $\square$ so that $36\square$ is divisible by 3.

Problem 3.16 Directions:

For each number, list every value from

2, 3, 4, 5, 6, 9, 10

that divides it.

A student claims that 2,736 is divisible by 9 because it is even. Is the student correct? Why or why not? Test the number correctly.

Problem 3.14 Directions:

For each number, list every value from

2, 3, 4, 5, 6, 9, 10

that divides it.

Find every digit that can replace $\square$ so that $81\square4$ is divisible by 4.

Problem 3.17 Directions:

For each number, list every value from

2, 3, 4, 5, 6, 9, 10

that divides it.

A student claims that every number divisible by 9 is also divisible by 3. Is the student correct? Explain using the divisibility tests.

Problem 3.15 Directions:

For each number, list every value from

2, 3, 4, 5, 6, 9, 10

that divides it.

A number is divisible by both 6 and 5. What must be true about its ones digit? Explain.

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Problem 3.18 Directions:

For each number, list every value from

2, 3, 4, 5, 6, 9, 10

that divides it.

Create a four-digit number that is divisible by 6 but not divisible by 9. Explain how you know.