

Divisibility Worksheet

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Part 1: Building a Foundation

What is the rule for determining if a number is divisible by 5?
Hint: Think about the last digit of the number.
The number ends in 0 or 5.
○ The number is even.
○ The sum of the digits is divisible by 5.
○ The last two digits form a number divisible by 5.
What is the vule for determining if a number is divisible by 52
What is the rule for determining if a number is divisible by 5?
Hint: Consider the last digit of the number.
A) The number ends in 0 or 5.
B) The number is even.
C) The sum of the digits is divisible by 5.D) The last two digits form a number divisible by 5.
b) The last two digits form a number divisible by 5.
What is the rule for determining if a number is divisible by 5?
Hint: Consider the last digit of the number.
○ A) The number ends in 0 or 5.
B) The number is even.
C) The sum of the digits is divisible by 5.
O) The last two digits form a number divisible by 5.
Which of the following numbers is divisible by 3?
Hint: Use the rule that the sum of the digits must be divisible by 3.
<u></u>



□ 456□ 789□ 101
Which of the following numbers is divisible by 3?
Hint: Check the sum of the digits for divisibility by 3.
☐ A) 123
□ B) 456
□ C) 789□ D) 101
Which of the following numbers is divisible by 3?
Hint: Check the sum of the digits for divisibility by 3.
☐ A) 123
□ B) 456
□ C) 789□ D) 101
Explain why the number 246 is divisible by 2.
Hint: Consider the last digit of the number.

Explain why the number 246 is divisible by 2.

Hint: Consider the last digit of the number.



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xplain why the number 246 is divisible by 2.	
int: Consider the last digit of the number.	
art 2: Understanding and Interpretation	
/hy is the number 120 divisible by both 3 and 4?	
lint: Consider the rules for both numbers.	
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Why is the number 120 divisible by both 3 and 4?

Hint: Consider the sum of the digits and the last two digits.



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Why is the number 120 divisible by both 3 and 4?	
Hint: Consider the sum of the digits and the last two digits.	
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If a number is divisible by 9, what can you infer about its divisibility by 3?	
Hint: Think about the relationship between the two numbers.	
○ It is also divisible by 3.	
It is not divisible by 3.	
It may or may not be divisible by 3.Divisibility by 9 has no relation to divisibility by 3.	
If a number is divisible by 9, what can you infer about its divisibility by 3?	
Hint: Think about the relationship between 9 and 3.	
○ A) It is also divisible by 3.	
○ B) It is not divisible by 3.	
C) It may or may not be divisible by 3.	
O) Divisibility by 9 has no relation to divisibility by 3.	
If a number is divisible by 9, what can you infer about its divisibility by 3?	
Hint: Think about the relationship between 9 and 3.	
○ A) It is also divisible by 3.	
B) It is not divisible by 3.	

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C) It may or may not be divisible by 3.D) Divisibility by 9 has no relation to divisibility by 3.
Which of the following numbers is divisible by both 2 and 5?
Hint: Consider the last digit of each number.
<u>40</u>
45
50 55
<u>55</u>
Which of the following numbers is divisible by both 2 and 5?
Hint: Consider the last digit of each number.
☐ A) 40
B) 45
□ C) 50 □ D) 55
D) 55
Which of the following numbers is divisible by both 2 and 5?
Hint: Consider the last digit of each number.
☐ A) 40
☐ B) 45
C) 50
□ D) 55
Part 3: Application and Analysis

Apply the divisibility rules to determine if 1,234 is divisible by 4.

Hint: Look at the last two digits of the number.



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Apply the divisibility rules to determine if 1,234 is divisible by 4.	
Hint: Check the last two digits of the number.	
Apply the divisibility rules to determine if 1,234 is divisible by 4.	
Hint: Check the last two digits of the number.	
A	•
A number ends in 0. What can you conclude about its divisibility by 2, 5, and 10	?
Hint: Consider the last digit and the rules for each number.	
Divisible by 2 and 5 only.	
Divisible by 5 and 10 only.	
Divisible by 2, 5, and 10.	
Divisible by 2 and 10 only.	

A number ends in 0. What can you conclude about its divisibility by 2, 5, and 10?



Hint: Consider the last digit and the rules for each number.
A) Divisible by 2 and 5 only.
B) Divisible by 5 and 10 only.
C) Divisible by 2, 5, and 10.
D) Divisible by 2 and 10 only.
A number ends in 0. What can you conclude about its divisibility by 2, 5, and 10?
Hint: Consider the last digit of the number.
A) Divisible by 2 and 5 only.
B) Divisible by 5 and 10 only.C) Divisible by 2, 5, and 10.
D) Divisible by 2 and 10 only.
Calculate whether 987 is divisible by 9 using the appropriate rule.
Hint: Use the sum of the digits to check divisibility.
Calculate whether 987 is divisible by 9 using the appropriate rule.
Hint: Consider the sum of the digits.

Calculate whether 987 is divisible by 9 using the appropriate rule.

Hint: Consider the sum of the digits.



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reak down the number 1,056 to check its divisibility by 7 using the subtraction met	hod.
int: Use the subtraction method to simplify the number.	
art 4: Evaluation and Creation	
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art 4: Evaluation and Creation reak down the number 1,056 to check its divisibility by 7 using the subtraction met	hod.
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	hod.

Break down the number 1,056 to check its divisibility by 7 using the subtraction method.

Hint: Consider the subtraction method for checking divisibility.



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aluate the number 2,016 for divisibility by 2, 3, 4, 6, 8, and 9. Provide a detailed explanati	ion for
t: Check each rule step by step.	
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aluate the number 2,016 for divisibility by 2, 3, 4, 6, 8, and 9. Provide a detailed explanati	ion for
t: Check the last digits and the sum of the digits for each rule.	
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Evaluate the number 2,016 for divisibility by 2, 3, 4, 6, 8, and 9. Provide a detailed explanation for each rule applied.

Hint: Consider the last digits and the sum of the digits.



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create a number that is divisible by 3, 5, and 10, and explain your process	
lint: Consider the last digits and the sum of the digits.	
Create a number that is divisible by 3, 5, and 10, and explain your process.	•
lint: Consider the rules for each number.	
	//
Create a number that is divisible by 3, 5, and 10, and explain your process.	
lint: Consider the rules for each number.	
2222	



Propose a real-world scenario where understanding divisibility rules could be beneficia how you would apply these rules.	l, and explain
Hint: Think about practical applications of divisibility.	
Propose a real-world scenario where understanding divisibility rules could be beneficia how you would apply these rules.	l, and explain
Hint: Think about situations involving grouping or sharing.	
Propose a real-world scenario where understanding divisibility rules could be beneficia how you would apply these rules.	l, and explain
Hint: Think about practical applications of divisibility.	
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