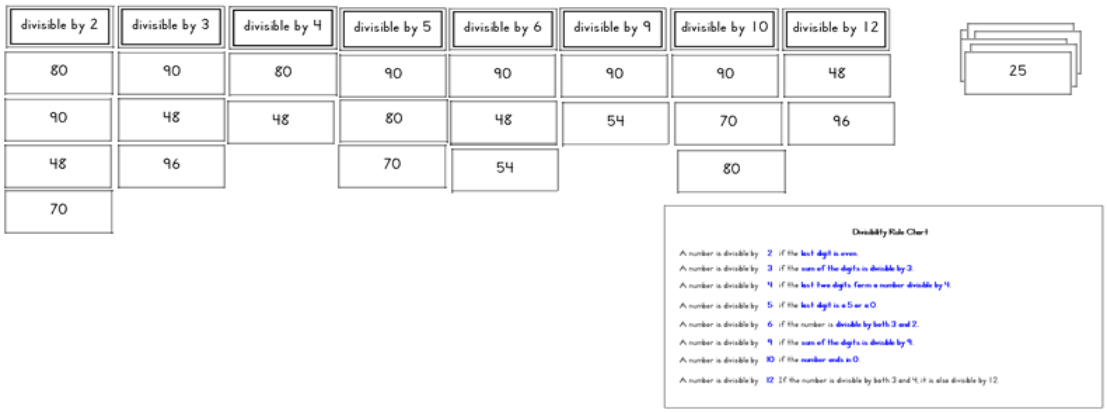
Directions for Divisibility Cards

1. Print out cards and laminate.
2. Print out chart and control card and laminate.
3. Explain that there are 'shortcuts' in determining if you can divide a number by another number. Explain that there are divisibility rules.
4. Give examples of how knowing if a number is divisible by another number is important to everyday life (i.e. You have 54 pieces of candy and need to know if it can be divided evenly between 6 people)
5. Set out divisibility work. Place heading cards at the top of the workspace. Place the number cards in a pile to the right of the workspace (or child's dominant side).
Place the chart where it can be easily referenced.
7. Pick a card from the pile and start reading through the divisibility rules.
8. Determine if the number is divisible by 2, 3, 4, 5, 6, 9, 10, or 12.
Place the number card under the correct heading card.
9. As soon as child is successful, leave them to finish the work.
10. Child checks answers with control card.

(Show child how to mix up cards before putting the work back in its place - this ensures that the next time the work is used, the cards are not already in the correct order)



divisible by 2	divisible by 3	divisible by 4	divisible by 5	divisible by 6	divisible by 9	divisible by 10	divisible by 12
80	90	80	90	90	90	90	48
90	48	48	80	48	54	70	96
48	96		70	54		80	
70							

25

Divisibility Rule Chart

A number is divisible by 2 if the last digit is even.
A number is divisible by 3 if the sum of the digits is divisible by 3.
A number is divisible by 4 if the last two digits form a number divisible by 4.
A number is divisible by 5 if the last digit is a 5 or a 0.
A number is divisible by 6 if the number is divisible by both 3 and 2.
A number is divisible by 9 if the sum of the digits is divisible by 9.
A number is divisible by 10 if the number ends in 0.
A number is divisible by 12 If the number is divisible by both 3 and 4, it is also divisible by 12.

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Divisibility Rule Chart

A number is divisible by 2 if the last digit is even.

A number is divisible by 3 if the sum of the digits is divisible by 3.

A number is divisible by 4 if the last two digits form a number divisible by 4.

A number is divisible by 5 if the last digit is a 5 or a 0.

A number is divisible by 6 if the number is divisible by both 3 and 2.

A number is divisible by 9 if the sum of the digits is divisible by 9.

A number is divisible by 10 if the number ends in 0.

A number is divisible by 12 If the number is divisible by both 3 and 4, it is also divisible by 12.

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divisible by 2	divisible by 3
80	90
90	48
70	96
48	63
96	54
54	75

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divisible by 4	divisible by 5
80	70
48	55
96	75
	90
	25
	80

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divisible by 6	divisible by 9
90	90
48	63
96	54
54	

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divisible by 10	divisible by 12
90	48
80	96
70	

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divisible by 2	divisible by 3	divisible by 4	divisible by 5	divisible by 6	divisible by 9	divisible by 10	divisible by 12
80	90	80	70	90	90	90	48
90	48	48	55	48	63	80	96
70	96	96	75	96	54	70	
48	63		90	54			
96	54		25				
54	75		80				

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