

**Divisibility Rules** 

A number is **DIVISIBLE** by another number, if the number can be divided by that number without any remainder, e.g. **9** is divisible by **3**, because  $9 \div 3 = 3$  without any remainder.

There are specific rules that make it easier to test if a number is divisible by another number.

Number	Rule	Example			
2	All <b>even</b> numbers are always divisible by <b>2</b>	456 78 <b>4</b> will be divisible by <b>2</b>			
5	All numbers with either a <b>zero (0) or a</b> five (5) in the <b>Units</b> place, are divisible by 5	345 78 <b>5</b> and 999 99 <b>0</b> will be divisible by <b>5</b>			
10	All numbers with a <b>zero (0) in the Units</b> place, are divisible by <b>10</b>	109 78 <b>0</b> will be divisible by <b>10</b>			
3	If the <b>sum of the digits of a number</b> is divisible by 3, then the original number will also be divisible by <b>3</b>	750: <b>7+5+0 = 12</b> , 12 <b>÷3</b> = 4, 750 will be divisible by <b>3</b>			
4	If the <b>last two digits</b> of a number are divisible by 4, the number will also be divisible by <b>4</b>	45 7 <b>16: 16÷4= 4</b> , 45 716 will be divisible by <b>4</b>			
6	If a number is divisible by <b>2 and by 3</b> then the number will be divisible by <b>6</b>	35 <b>4</b> : Divisible by <b>2</b> , <b>3+5+4 = 12</b> , 12 <b>÷3</b> = 4, 354 will be divisible by <b>6</b> .			
8	If the <b>last three digits</b> of a number are divisible by 8, the number will also be divisible by <b>8</b>				
9	If the <b>sum of the digits</b> of a number is divisible by 9, then the original number will also be divisible by <b>9</b>	6 984: <b>6+9+8+4= 27</b> , 27 <b>÷9</b> = 3, 6 984 is divisible by <b>9</b>			

Tick the box if the number is divisible by the given numbers:

Number	÷ 2	÷3	÷ 4	÷ 5	÷ 6	÷ 8	÷ 9	÷10
5 841								
760 240								
108 405								
936								
77 085								

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Number	÷ 2	÷3	÷4	÷5	÷6	÷8	÷9	÷10
5 841								
760 240								
108 405								
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77 085								

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