

# The Divisibility Rule For THREE Worksheet

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How can you tell if a number is divisible by three?

**Add up the digits** to see if they add up to a **multiple of three**.

**Example:** Adding up the digits in 276 gives a sum of 15 ( $2 + 7 + 6 = 15$ ). Fifteen is a multiple of three, so 276 is divisible by three.

**Example:** Adding up the digits in 477 gives a sum of 18 ( $4 + 7 + 7 = 18$ ). Eighteen is a multiple of three, so 477 is divisible by three.

**Example:** Adding up the digits in 581 gives a sum of 14 ( $5 + 8 + 1 = 14$ ). Fourteen is *not* a multiple of three, so 581 is *not* divisible by three.

**Practice Problems:** Circle YES if the number is divisible by three and NO if it is not divisible by three.

1.	<b>267</b>	Yes or No
2.	<b>34</b>	Yes or No
3.	<b>15</b>	Yes or No
4.	<b>1980</b>	Yes or No
5.	<b>8</b>	Yes or No
6.	<b>99</b>	Yes or No
7.	<b>38</b>	Yes or No
8.	<b>204</b>	Yes or No
9.	<b>8934</b>	Yes or No
10.	<b>12</b>	Yes or No

11.	<b>72</b>	Yes or No
12.	<b>9</b>	Yes or No
13.	<b>46</b>	Yes or No
14.	<b>54</b>	Yes or No
15.	<b>562</b>	Yes or No
16.	<b>3979</b>	Yes or No
17.	<b>10</b>	Yes or No
18.	<b>555</b>	Yes or No
19.	<b>27</b>	Yes or No
20.	<b>936</b>	Yes or No

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### Practice Problem Answers:

1.	<b>267</b>	<b>YES</b> or No
2.	<b>34</b>	Yes or <b>NO</b>
3.	<b>15</b>	<b>YES</b> or No
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18.	<b>555</b>	<b>YES</b> or No
19.	<b>27</b>	<b>YES</b> or No
20.	<b>936</b>	<b>YES</b> or No