



Decimal Number Riddles Activity Sheets

I can read and write numbers with up to three decimal places.



Use your decimal place value skills to solve the riddles.

1

- It is less than 10 but greater than 1 with two digits.
- The digits add up to 12.
- Both digits are odd.
- The ones digit is two greater than the tenths digit.

2

- It is less than 10 but greater than 1 with two digits.
- The digits add up to 11.
- Only the ones digit is even.
- The ones digit is seven less than the tenths digit.

3

- It is less than 10 but greater than 1 with two digits.
- The digits add up to 14.
- Both the digits are even.
- The tenths digit is the smallest digit.

4

- It is less than 10 but greater than 1 with two digits.
- The digits add up to 12.
- Both the digits are odd.
- The tenths digit equals the ones digit multiplied by three.

Extra challenge:

Write your own decimal place value riddle for someone else to solve:





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Activity Sheets **Answers**

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- It is less than 10 but greater than 1 with two digits.
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- Both digits are odd.
- The ones digit is two greater than the tenths digit.

7.5

2

- It is less than 10 but greater than 1 with two digits.
- The digits add up to 11.
- Only the ones digit is even.
- The ones digit is seven less than the tenths digit.

2.9

3

- It is less than 10 but greater than 1 with two digits.
- The digits add up to 14.
- Both the digits are even.
- The tenths digit is the smallest digit.

8.6

4

- It is less than 10 but greater than 1 with two digits.
- The digits add up to 12.
- Both the digits are odd.
- The tenths digit equals the ones digit multiplied by three.

3.9

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Use your decimal place value skills to solve the riddles.

1

- It is less than 10 but greater than 1, with three digits.
- The digits add up to 13.
- Only the tenths digit is odd.
- The ones digit and the hundredths digit are the same.
- The ones digit is less than five.

2

- It is less than 10 but greater than 1, with three digits.
- The digits add up to 14.
- Only the tenths and hundredths digits are odd.
- The sum of the tenths and hundredths digits is 8.
- The tenths digit is six more than the hundredths digit.

3

- It is less than 10 but greater than 1, with three digits.
- The digits add up to 11.
- The tenths digit is a quarter of the ones digit.
- The product of the ones and tenths digits is 16.
- The sum of the tenths and hundredths digits is 3.

4

- It is less than 20 but greater than 10, with four digits.
- The digits add up to 16.
- Both the tenths and hundredths digits are even; the product of these digits is 12.
- The sum of the tens and ones digits 8.

Extra challenge:

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- The digits add up to 13.
- Only the tenths digit is odd.
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- The ones digit is less than five.

4.54

2

- It is less than 10 but greater than 1, with three digits.
- The digits add up to 14.
- Only the tenths and hundredths digits are odd.
- The sum of the tenths and hundredths digits is 8.
- The tenths digit is six more than the hundredths digit.

6.71

3

- It is less than 10 but greater than 1, with three digits.
- The digits add up to 11.
- The tenths digit is a quarter of the ones digit.
- The product of the ones and tenths digits is 16.
- The sum of the tenths and hundredths digits is 3.

8.21

4

- It is less than 20 but greater than 10, with four digits.
- The digits add up to 16.
- Both the tenths and hundredths digits are even; the product of these digits is 12.
- The sum of the tens and ones digits 8.

17.26

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Use your decimal place value skills to solve the riddles.

1

- It is less than 10 but greater than 1, with four digits.
- The digits add up to 20.
- The ones and tenths digits are odd.
- The sum of the ones and tenths digits is 10.
- The tenths digit is seven less than the hundredths digit.
- The sum of the hundredths and thousandths digit is 10.

2

- It is less than 10 but greater than 1, with four digits.
- The digits add up to 15.
- Only the tenths digit is even.
- The product of the ones and tenths digits is 28.
- The hundredths digit is three less than the tenths digit.
- The product of the hundredths and thousandths digits is 3.
- The thousandths digit is two more than the hundredths digit.

3

- It is less than 20 but greater than 10, with five digits.
- The digits add up to 23.
- The product of the tens and ones digits is 4.
- The tenths digit is five greater than the ones digit.
- The product of the tenths and hundredths digits is 72.
- The sum of the hundredths and thousandths digits is 9.

4

- It is less than 40 but greater than 30, with five digits.
- The digits add up to 25.
- The product of the tens and ones digits is 24.
- The tenths digit is half of the ones digit.
- The hundredths digit is one less than the tenths digit.
- The product of the hundredths and thousandths digits is 21.

Extra challenge:

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- The sum of the ones and tenths digits is 10.
- The tenths digit is seven less than the hundredths digit.
- The sum of the hundredths and thousandths digit is 10.

9.182

2

- It is less than 10 but greater than 1, with four digits.
- The digits add up to 15.
- Only the tenths digit is even.
- The product of the ones and tenths digits is 28.
- The hundredths digit is three less than the tenths digit.
- The product of the hundredths and thousandths digits is 3.
- The thousandths digit is two more than the hundredths digit.

7.413

3

- It is less than 20 but greater than 10, with five digits.
- The digits add up to 23.
- The product of the tens and ones digits is 4.
- The tenths digit is five greater than the ones digit.
- The product of the tenths and hundredths digits is 72.
- The sum of the hundredths and thousandths digits is 9.

14.981

4

- It is less than 40 but greater than 30, with five digits.
- The digits add up to 25.
- The product of the tens and ones digits is 24.
- The tenths digit is half of the ones digit.
- The hundredths digit is one less than the tenths digit.
- The product of the hundredths and thousandths digits is 21.

38.437