

# Decimal Place Value Riddle

## Challenge Cards



Decimal Place Value Riddle

What is the number?

- the number has 2 digits
- the number is less than 10
- the tenths digit is 1 more than the ones digit
- the digits add up to 7

1

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Decimal Place Value Riddle

What is the number?

- the number has 2 digits
- the number is more than 5
- the ones digit is more than double the tenths digit
- the digits add up to 11
- the ones digit is even

2

Decimal Place Value Riddle

What is the number?

- the number has 3 digits
- the number is less than 30
- the tenths digit is equal to the sum of the tens and ones digits
- the number has odd and even digits
- the number is greater than 20
- the ones digit is half of 10

3

Decimal Place Value Riddle

What is the number?

- the number has 3 digits
- the number is greater than 70
- the sum of the tens and ones digits is 10
- none of the digits are greater than 7
- the tenths digit is one less than the tens digit

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Decimal Place Value Riddle

What is the number?

- the number has 3 digits
- the number is less than 10
- one of the digits is a 0
- the sum of all the digits is 9
- add 0.98 to the number to get a whole number

5

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Decimal Place Value Riddle

What is the number?

- the number has 3 digits
- the number is less than 5
- the ones digit is half of the tenths digit
- one of the digits is a 1
- two of the digits are even
- the number is greater than 3

6

Decimal Place Value Riddle

What is the number?

- the number has 4 digits
- the number is less than 100
- one of the digits is an odd number
- the hundredths digit is the sum of the tens and ones digits
- the tens digit is three times the ones digit
- the tens digit is two times the tenths digit

7

Greater Depth Challenge:

$$50362 > n$$

$$n < 4000$$

$n$  is an even number and is the sum of two squared numbers.

**What could  $n$  be?**

Greater Depth Challenge:

\_\_\_\_\_  \_\_\_\_\_

Order these sets of numbers from smallest to largest by writing the correct letter on each line. What number can go in the box? Explain why?

- (a) 100 more than 16,006
- (b)  $6^2$
- (c) One thousand six hundred and one
- (d)  $10.6 \times 100$
- (e) 3006 greater than 6,009,000 divided by  $10^2$

Greater Depth Challenge:

3.  3.

Can you use the symbols and numbers below to make the above number sentences correct.

**< > 0 6 9 1 4**

How many sentences can you make? How do you know when you have found them all?

Greater Depth Challenge:

You have the choice of 3 different amounts of money. What amount would you choose and why?

£53892

£5489

5093892p

five million pounds

Would you choose to have the amount in pounds or in another currency? Why?