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

rwinkl.co.ul

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

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

1

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

4

twinkl.co.ul

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

twinki.co.s

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

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

6

7



Greater Depth Challenge:

50362 > n

n < 4000

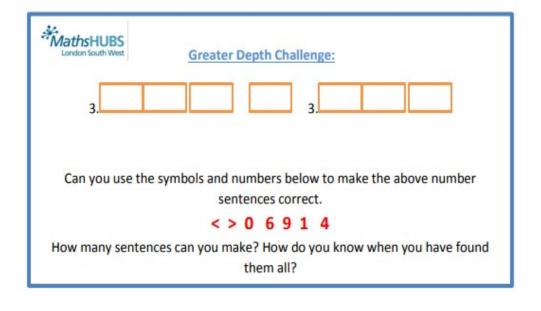
n is an even number and is the sum of two squared numbers.

What could n be?



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) 62
- (c) One thousand six hundred and one
- (d) 10.6 x 100
- (e) 3006 greater than 6,009,000 divided by 102





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?