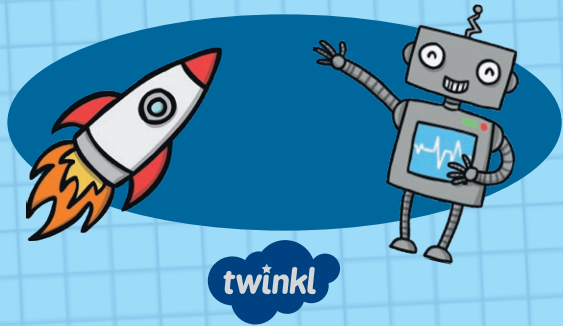


## Maths Mastery

# Compare and Order Numbers Place Value Challenge Cards



### Compare and Order Numbers Place Value Maths Mastery

1. Using the numerals 3, 4 and 5, how many different 1 and 2-digit numbers can you make?

Can you order them from largest to smallest?

Using each number only once, can you complete the following sentences?

$$\square < \square$$

$$\square > \square$$

$$\square = \square + \square + \square$$

### Compare and Order Numbers Place Value Maths Mastery

2. Ben and Alice have each made a 2-digit number. They are comparing them.

“My number has 2 more tens and 3 more ones than yours.”



“My number has an equal number of tens and ones.”

What might their numbers be?

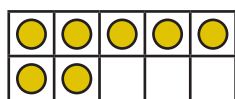
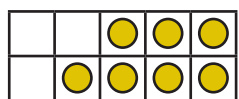
Can you find all the possibilities?

### Compare and Order Numbers Place Value Maths Mastery

3. Haseefa has written the following sentences. She has made a mistake. Can you find her mistake and find 3 different ways to correct it?



4. What symbols would you put into the following sentences?



$7 + 5$

$18 - 5$

Can you make up some of your own, using different representations?

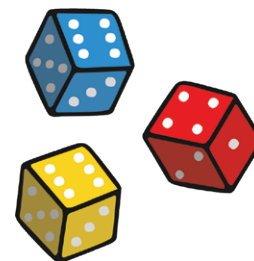
5. Roll a dice 4 times.

Use the numbers you have rolled to make 1 and 2-digit numbers.

How many different numbers can you make?

Can you order them from greatest to smallest?

Choose 3 of your numbers and find different ways to represent them.



6. How many numbers between 1 and 100 can be made with just one numeral? (You can use it more than once to make a number.)

Can you explain how you know you have found them all?

Shade them on 100 square. Can you see a pattern?

7. Find different ways of completing the sentence.

Can you 'prove' you are correct using equipment?

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} > \underline{\hspace{2cm}} - \underline{\hspace{2cm}}$$



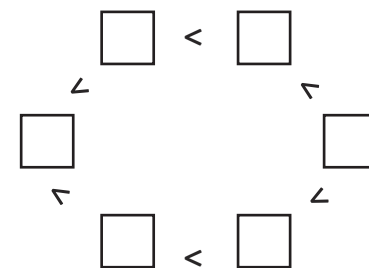
8. Ben has 4 tens and 6 ones. Alice has 3 tens and 16 ones. Alice says she has more. Is she correct?

How do you know?



9. Put the following numbers into the circle, so that the signs are correct.

95, 56, 42, 31, 18, 60



What was your method?

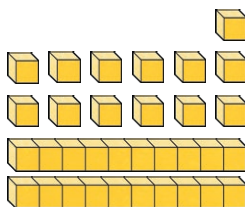
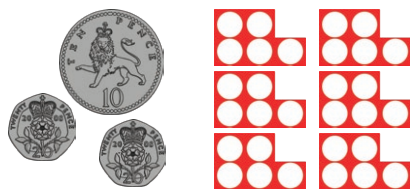
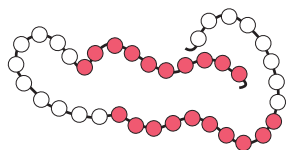
Can you make up a similar puzzle of your own?

10. Which is the greatest number?

Which is the smallest number?

Can you order the numbers from smallest to greatest?

Can you think of a way to represent a number that would fit between the second and third numbers?



# Year 2 Compare and Order Numbers

## Place Value Maths Mastery Answers

- Using the numerals 3, 4 and 5, how many different 1 and 2-digit numbers can you make?  
**3, 4, 5, 34, 35, 43, 45, 53, 54**

Can you order them from largest to smallest?

**54, 53, 45, 43, 35, 34, 5, 4, 3**

Using each number only once, can you complete the following sentences?

$$43 = 34 + 5 + 4$$

**Accept any other correct answers that use each number once.**

- What might their numbers be? Can you find all the possibilities?  
**Ben: 34, 45, 56, 67, 78, 89**  
**Alice: 11, 22, 33, 44, 55, 66**

- Haseefa has written the following sentences. She has made a mistake. Can you find her mistake and find 3 different ways to correct it?  
**The final sentence is incorrect. Increasing the amount on the left, changing the symbol to = or decreasing the amount on the right would correct it.**

		○	○	○
○	○	○	○	○

=

○	○	○	○	○
○	○			



>



$$7 + 5 <$$

$$18 - 5$$

- What symbols would you put into the following sentences?  
**If 4 different numbers are rolled, there will be 16 possibilities.**
- How many numbers between 1 and 100 can be made with just one numeral?  
**1, 11, 2, 22, 3, 33, 4, 44, 5, 55, 6, 66, 7, 77, 8, 88, 9, 99**

Can you explain how you know you have found them all?

**Children may order them in a pattern.**

Shade them on 100 square. Can you see a pattern?

**All the 1-digit numbers on the top row are shaded. There is a diagonal pattern across the square from 11 to 99.**

7. Find different ways of completing the sentence. Can you 'prove' you are correct using equipment?

**Accept any correct response.**

8. Ben has 4 tens and 6 ones. Alice has 3 tens and 16 ones. Alice says she has more. Is she correct? How do you know?

**Alice is incorrect. She has the same as Ben, her number is just arranged differently.**

9. Put the following numbers into the circle, so that the signs are correct.

$$\begin{array}{ccc} \boxed{42} < \boxed{56} & & \boxed{95} \\ \swarrow & & \swarrow \\ \boxed{18} & & \boxed{31} \\ \nwarrow & & \nwarrow \\ \boxed{60} & & \boxed{60} \end{array}$$

What was your method?

**Children may spot that they need to put 95 between the 2 < symbols as it is the highest number and work from here.**

10. Which is the greatest number?

**50**

Which is the smallest number?

**30**

Can you order the numbers from smallest to greatest?

**30 32, 38, 50**

Can you think of a way to represent a number that would fit between the second and third numbers?

**Any number between 33 and 37 represented correctly.**