

Name

Date



8-DIGIT NUMBER CHALLENGES 1

Use the digits **0, 1, 2, 3, 5, 6, 7** and **9** to make an **8-digit** number each time.

| | | |
|-----|--|--|
| 1) | What is the largest 8-digit number you can make? | |
| 2) | Subtract 900 from this number. | |
| 3) | What is the smallest 8-digit number you can make? (Your number cannot start with a zero!) | |
| 4) | Add 90,000 to this number. | |
| 5) | What is the largest multiple of 50 you can make? | |
| 6) | What is the smallest even number you can make? | |
| 7) | What is the closest number to 40 million you can make? | |
| 8) | Make an 8-digit number which is divisible by 4. | |
| 9) | Make an 8-digit number which is divisible by 6. | |
| 10) | Write down 5 different numbers between 32,976,000 and 33,000,000 that you can make. | |
| 11) | Write these 5 numbers in order from smallest to largest. | |
| 12) | Look at the number 63,107,295 | |
| | Round it to the nearest 10. | |
| | Round it to the nearest 100. | |
| | Round it to the nearest 1000. | |
| | Round it to the nearest 10,000. | |
| | Round it to the nearest 100,000. | |
| | Round it to the nearest million. | |

Name

Date



8-DIGIT NUMBER CHALLENGES 1 ANSWERS

Use the digits 0, 1, 2, 3, 5, 6, 7 and 9 to make an 8-digit number each time.

| | | |
|-----|--|--|
| 3) | What is the largest 8-digit number you can make? | 97,653,210 |
| 4) | Subtract 900 from this number. | 97,652,310 |
| 3) | What is the smallest 8-digit number you can make? (Your number cannot start with a zero!) | 10,235,679 |
| 4) | Add 90,000 to this number. | 10,325,679 |
| 5) | What is the largest multiple of 50 you can make? | 97,632,150 |
| 6) | What is the smallest even number you can make? | 10,236,796 |
| 7) | What is the closest number to 40 million you can make? | 39,765,210 |
| 8) | Make an 8-digit number which is divisible by 4. | last 2 digits must be divisible by 4 |
| 9) | Make an 8-digit number which is divisible by 6. | any even number which uses all the digits above |
| 10) | Write down 5 different numbers between 32,976,000 and 33,000,000 that you can make. | Any 5 of these 6 32,976,015 32,976,051 32,976,105 32,976,150 32,976,501 32,976,510 |
| 11) | Write these 5 numbers in order from smallest to largest. | See above |
| 12) | Look at the number 63,107,295 | |
| | Round it to the nearest 10. | 63,107,300 |
| | Round it to the nearest 100. | 63,107,300 |
| | Round it to the nearest 1000. | 63,107,000 |
| | Round it to the nearest 10,000. | 63,110,000 |
| | Round it to the nearest 100,000. | 63,100,000 |
| | Round it to the nearest million. | 63,000,000 |