**Task One: Decimals**

1) Here are some digit cards.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **2** |  | **0** |  | **5** |  | **7** |  | **1** |  | **6** |

Here is a mathematical statement involving decimals.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **.** |  |  |  | **>** |  | **.** |  |  |  |

1. Place the digits into the empty boxes to complete the statement.

b) Find six different ways to complete the statement using the digits.

c) Here is a new statement.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **.** |  | **<** |  | **.** |  | **<** |  | **.** |  |

Use the same digits. Find six different ways to complete the statement.

2) Three of the cards are removed. These digits remain.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **1** |  | **7** |  | **6** |

a) Place the digits into the empty boxes to complete this statement.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **5** | **.** |  |  |  | **<** | **5** | **.** |  |

b) How many different ways can this puzzle be completed?

**Task Two: Fractions and decimals**

1) Here are some more digit cards.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **4** |  | **0** |  | **8** |  | **5** |

Here is a mathematical statement involving fractions and decimals.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |
| --- |
|  |
|  |
|  |
|  |

 | $$\geq $$ |

|  |  |  |
| --- | --- | --- |
|  | **.** |  |

 |

1. Place the digits into the empty boxes to complete the statement.

b) How many different ways can this puzzle be completed?

2) Here are some more digit cards.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **5** |  | **2** |  | **9** |  | **0** |  | **1** |  | **3** |

Here is another mathematical statement involving fractions and decimals.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|  | **.** |  |

 | < |

|  |
| --- |
|  |
|  |
|  |
|  |

 | < |

|  |  |  |
| --- | --- | --- |
|  | **.** |  |

 |

1. Place the digits into the empty boxes to complete the statement.

b) The 1 is swapped for a 9. Complete the same statement using the new selection of digits.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **5** |  | **2** |  | **9** |  | **0** |  | **7** |  | **3** |

**Task Three: Just fractions**

1) Here is a new set of digit cards.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **1** |  | **2** |  | **4** |  | **8** |

Here is a mathematical statement involving fractions.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |
| --- |
|  |
|  |
|  |
|  |

 | $$\ne $$ |

|  |
| --- |
|  |
|  |
|  |
|  |

 |

1. Place the digits into the empty boxes to complete the statement.

b) How many different ways can you find to complete the puzzle?

2) Two more digit cards are added to the set.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** |  | **2** |  | **4** |  | **8** |  | **3** |  | **7** |

Here is another mathematical statement involving fractions and decimals.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |
| --- |
|  |
|  |
|  |
|  |

 | < |

|  |
| --- |
|  |
|  |
|  |
|  |

 | < |

|  |
| --- |
|  |
|  |
|  |
|  |

 |

1. Place the digits into the empty boxes to complete the statement.

b) How many different ways can you find to complete the puzzle?