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| --- | --- | --- | --- | --- |
| Num1 | Num2 | Action Performed | Expected Result | Actual Result |
| ½ | ¼ | Num1.add(num2) | Num1 becomes ¾  num2 is unchanged | Num1 is ¾  Num2 is unchanged |
| -½ | -¼ | Nu m2.add(num1) | Num2 becomes  -½ and num1 is unchanged | Num2 = - ½ and num1 is unchanged |
| 0 | -1/4 | Num1.add(num2) | Num1 becomes 0 and num2 is unchanged | Num1 becomes 0 and num2 is unchanged |
| 9/2 | ¼ | Num1.add(num2) | Num1 becomes -17/4 and num2 is unchanged | Num1 = -17/4 and num2 is unchanged |
| 22/4 | 6/4 | Num1.substract(num2) | Num1 = 4  Num2 = unchanged | Num1 is 4  And  num2 = unchanged |
| ½ | 1/2 | Num1.substrat(num2) | Num1 =0  Num2 = unchanged | Num1 is 0  Num2 is unchanged |
| 1/8 | ¼ | Num1.substract(num2) | Num1 = 1/8  Num2 = unchanged | Num1 = -1/8  Num2 is unchanged |
| ½ | 1/8 | Num2.substract(num1) | Num1 is unchanged  Num2 becomes -3/8 | Num2 is -3/8 while num1 is unchanged |
| 1/2 | ¼ | Num1.multiply(num2) | Num1 = 1/8 num2 is unchanged | Num1 = 1/8 num2 is unchanged |
| 0/2 | ¼ | Num1.mutiply(num2) | Num1=0  Num2 = ¼ | Num1 is 0 while num2 is not changed |
| -1/2 | 4/4 | Num1.multiply(num2) | Num1 =-1/4  Num2 is unchanged | Num1 = -1/4  Num2 is unchanged |
| -1/0 | ¼ | Num1.multiply(num2) | Illegal argument | Illegal argument |
| ½ | 1/0 | Num1.divide(num2) | Illegal argument | Illegal argument |
| 1 | 1/-9 | Num1.divide(num2) | Num1 =-9  Num2 is unchanged | Num1 = -9  Num2 is unchanged |
| 1 | 1/9 | Num1.divide(num2) | Num1 = 9  While  Num2 is unchanged | Num1 =9  While  Num2 is unchanged |
| 1/0 |  | Num1.setDenominator(0) | Illegal Argument | Illegal Argument |
| 1/-1 |  | Num1.setDenominator(1) | Num1 =-1 | Num1=-1 |
| ½ | ½ | Num1 == num2 | Num1 stays unchanged  And  Num2 stays unchanged | Num1 and Num2 is eqaul |
| 1/-2 | -1/2 | Num1 == num2 | Num1 becomes -1/2 and num2 becomes -1/2 | Num1 becomes -1/2 and num2 becomes -1/2 |
| 1/0 | ¼ | Num1 == num2 | Illegal Argument | Illegal Argument |
| ½ | ¼ | Num1 toString num1 | Num1 and num2 stays the same | Num1 and num2 stays the same |