

Name \_\_\_\_\_ Date \_\_\_\_\_

Quiz: Powers of  $i$

1 Simplify:  $i^{70}$

2 Simplify:  $i^{72} + i^{72} + i^{36} - i^{35}$

3 Find the product of:  
 $i^{75} \cdot 4i^{735} \cdot 6i^{25}$

4 Find the sum of:  $2i^{25} + i^{65}$

5 Find the value of:  $(i^{37})^6$

6 Simplify:  $i^{76}$

7 Simplify:  $i^{33} + i^{34} + i^{37} - i^{75}$

8 Find the product of:  
 $i^{75} \cdot 3i^{36} \cdot 3i^{45}$

9 Find the sum of:  $7i^{75} + i^{75}$

10 Find the value of:  $(i^{75})^5$

Circle # Correct	0	1	2	3	4	5	6	7	8	9	10
Percentage Score	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%