

Adding Decimals within 1

1. The number represented is 0.437. $0.437 + 0.05 = 0.487$; $0.437 + 0.002 = 0.439$
2. 63 squares shaded. $0.57 + 0.06 = 0.63$
- 3.

| | | | | | |
|-------|---|---|---|---|---|
| | 0 | . | 7 | 4 | 8 |
| + | 0 | . | 0 | 4 | 0 |
| <hr/> | | | | | |
| | 0 | . | 7 | 8 | 8 |
| <hr/> | | | | | |
| | | | | | |

4. Various answers, for example:
 $0.02 + 0.237 < 0.005 + 0.806$; $0.02 + 0.164 < 0.005 + 0.574$; $0.02 + 0.319 < 0.005 + 0.806$; $0.02 + 0.08 < 0.005 + 0.03$; $0.02 + 0.023 < 0.005 + 0.7$
5. April has added the 5 in the thousandths column to the 4 hundredths rather than adding to the empty thousandths column. The correct answer is shown below.

| | | | | | |
|-------|---|---|---|---|---|
| | 0 | . | 4 | 4 | |
| + | 0 | . | 0 | 0 | 5 |
| <hr/> | | | | | |
| | 0 | . | 4 | 9 | |
| <hr/> | | | | | |
| | | | | | |

| | | | | | |
|-------|---|---|---|---|---|
| | 0 | . | 4 | 4 | |
| + | 0 | . | 0 | 0 | 5 |
| <hr/> | | | | | |
| | 0 | . | 4 | 4 | 5 |
| <hr/> | | | | | |
| | | | | | |

6. I disagree with Jack because there are two columns he could add the 4 counters to which would give a total less than 1. If Jack added the counters to the hundredths column, the total would be 0.664 because $0.624 + 0.04 = 0.664$. Jack could also add the counters to the thousandths column as $0.624 + 0.004 = 0.628$.