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

S1C1PO2: Use prime factorization to • express a whole number as a product of its prime factors and • determine the greatest common factor and least common multiple of two whole numbers.

|  |  |
| --- | --- |
| Fraction/decimal/percent **7/180** | Question of the day  If you take a number and double it, then subtract ten, and divide by three you get 8. What is the starting number? |

|  |  |
| --- | --- |
| Prime  Prime/Composite | Composite |
| Examples | Examples |

When determining if a number is prime, ask yourself four questions:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_? If yes, then it’s composite because it can be divided by two.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_? If yes, then it’s composite because it can be divided by 3 or 9.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_? If yes, then it’s composite because it can be divided by five.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_?

Practice:

|  |  |  |
| --- | --- | --- |
| **185**  Prime Composite  Justify: | **105**  Prime Composite  Justify: | **49**  Prime Composite  Justify: |
| **57**  Prime Composite  Justify: | **63**  Prime Composite  Justify: | **17**  Prime Composite  Justify: |
| **221**  Prime Composite  Justify: | **103**  Prime Composite  Justify: | **91**  Prime Composite  Justify: |

**E.Q.:** How are prime and composite numbers important in problem solving?