#### Study Island

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**6.** Look at the two monomials below.

36*u*4*v*3*w*2      20*u*3*vw*3

What is the least common multiple (LCM) of the monomials shown above?

|  |  |
| --- | --- |
|  | **A.** 4*u*3*vw*2 |

|  |  |
| --- | --- |
|  | **B.** 180*u*4*v*3*w*3 |

|  |  |
| --- | --- |
|  | **C.** 4*u*7*v*4*w*5 |

|  |  |
| --- | --- |
|  | **D.** 180*u*7*v*4*w*5 |

**7.** Look at the two monomials below.

36*x*3*yz*3      20*x*2*yz*3

What is the least common multiple (LCM) of the monomials shown above?

|  |  |
| --- | --- |
|  | **A.** 4*x*2*yz*3 |

|  |  |
| --- | --- |
|  | **B.** 4*x*5*y*2*z*6 |

|  |  |
| --- | --- |
|  | **C.** 180*x*5*y*2*z*6 |

|  |  |
| --- | --- |
|  | **D.** 180*x*3*yz*3 |

**8.** Look at the two monomials below.

3*x*2*y*2      5*x*4*y*3

What is the least common multiple (LCM) of the monomials shown above?

|  |  |
| --- | --- |
|  | **A.** *x*2*y*2 |

|  |  |
| --- | --- |
|  | **B.** 15*x*4*y*3 |

|  |  |
| --- | --- |
|  | **C.** 15*x*6*y*5 |

|  |  |
| --- | --- |
|  | **D.** *x*6*y*5 |

**9.** Look at the three monomials below.

18*xy*4*z*      30*xyz*3      10

What is the least common multiple (LCM) of the monomials shown above?

|  |  |
| --- | --- |
|  | **A.** 90*x*2*y*5*z*4 |

|  |  |
| --- | --- |
|  | **B.** 6*xyz* |

|  |  |
| --- | --- |
|  | **C.** 90*xy*4*z*3 |

|  |  |
| --- | --- |
|  | **D.** 6*xy* |

**10.** Look at the two monomials below.

27*x*2*y*      15*x*4*y*3*z*3

What is the least common multiple (LCM) of the monomials shown above?

|  |  |
| --- | --- |
|  | **A.** 3*x*2*y* |

|  |  |
| --- | --- |
|  | **B.** 3*x*2*yz* |

|  |  |
| --- | --- |
|  | **C.** 135*x*4*y*3*z*3 |

|  |  |
| --- | --- |
|  | **D.** 135*x*6*y*4*z*3 |