

Name: \_\_\_\_\_

**GCF & LCM**

Find the greatest common factor (GCF) of each of the following.

1.  $6u^3v^3w^4$      $66u^2v^3w^4$

- ☐ A.  $6u^3v^3w^4$
- ☐ B.  $6u^2v^3w^4$
- ☐ C.  $66u^2v^3w^4$
- ☐ D.  $66u^5v^6w^8$

2.  $5xy^2z^2$      $10x^2y^3z^3$

- ☐ A.  $10x^3y^5z^5$
- ☐ B.  $5xy^2z^2$
- ☐ C.  $5x^2y^3z^3$
- ☐ D.  $10x^2y^3z^3$

3.  $6x^4y^4z^4$      $10x^2y^2$

- ☐ A.  $2x^4y^4z^4$
- ☐ B.  $2x^2y^2$
- ☐ C.  $30x^6y^6z^4$
- ☐ D.  $30x^4y^4z^4$

4.  $9xy$      $15x^2y$

- ☐ A.  $45x^2y$
- ☐ B.  $3xy$
- ☐ C.  $45x^3y^2$
- ☐ D.  $3x^2y$

5.  $42x^2y^2$      $66x^2y^4$      $6x^3y^5$

- ☐ A.  $6x^3y^5$
- ☐ B.  $462x^3y^5$
- ☐ C.  $462x^7y^{11}$
- ☐ D.  $6x^2y^2$

Find the least common multiple (LCM) of each of the following.

6.  $27xy$      $15x^2y^4z^4$

- ☐ A.  $135x^3y^5z^4$
- ☐ B.  $3xyz$
- ☐ C.  $3xy$
- ☐ D.  $135x^2y^4z^4$

7.  $36x^4y^3$      $60x^3y$

- ☐ A.  $12x^7y^4$
- ☐ B.  $12x^3y$
- ☐ C.  $180x^7y^4$
- ☐ D.  $180x^4y^3$

8.  $12x^3y^3z^2$      $20xy^3z$

- ☐ A.  $60x^4y^6z^3$
- ☐ B.  $4x^4y^6z^3$
- ☐ C.  $4xy^3z$
- ☐ D.  $60x^3y^3z^2$

9.  $18uv^3w^2$      $10u^2v^2w^2$

- ☐ A.  $2uv^2w^2$
- ☐ B.  $90u^2v^3w^2$
- ☐ C.  $90u^3v^5w^4$
- ☐ D.  $2u^3v^5w^4$

10.  $12x^2y^2z^3$      $20x^3y^4z$      $20x^2y^3z^2$

- ☐ A.  $60x^3y^4z^3$
- ☐ B.  $4x^2y^2z$
- ☐ C.  $60x^5y^6z^4$
- ☐ D.  $4x^2y^2$