

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

**DIRECTIONS:** For #1-4, answer the questions in the provided blanks.

1. Find the greatest common factor of  $25c^4d^5$ ,  $15c^6d^4$ ,  $10c^2d^3$  .

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2. Find the least common multiple of  $25c^4d^5$ ,  $15c^6d^4$ ,  $10c^2d^3$  .

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3. Find the greatest common factor of  $9ab^5c^3$  and  $36a^4b^3$  .

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4. Find the least common multiple of  $9ab^5c^3$  and  $36a^4b^3$  .

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**DIRECTIONS:** For #5-18, factor completely. Write answers in the provided blanks.

5.  $27x^3y^3 + 36xy^5$

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6.  $100m^2 - 9$

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**7.**  $c^2 - 6c + 9$

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**8.**  $5p^3 - 5p$

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**9.**  $ac - bc + a - b$

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**10.**  $m^3 - 8$

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**11.**  $4x^2 - 20x + 25$

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**12.**  $p^6 + q^3$

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**13.**  $w^2 - 17w + 42$

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**14.**  $36 + 3x - 3x^2$

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**15.**  $6c^2 + 7cd - 5d^2$

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**16.**  $6a^3 + 13a^2b - 5ab^2$

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**17.**  $k^4 - 15k^2 - 16$

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**18.**  $2y^3 - 14y^2 + 3y - 21$

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