

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

Date: \_\_\_\_\_

# Factoring Monomials

Write the prime factorization of each monomial. Do not use exponents.

1. $92 q^5$	2. $108 uvw$	3. $42 p$
4. $15 m^3 n^2$	5. $6 a^5 b$	6. $78 a^2$
7. $32 pqr$	8. $81 uv$	9. $68 c$
10. $84 cd^2$	11. $8 g^2 h$	12. $90 x$
13. $38 xyz$	14. $8 yd$	15. $15 x^4$

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## Answers

1. $92 q^5$  $2 \times 2 \times 23 \times q \times q \times q \times q \times q$	2. $108 uvw$  $2 \times 2 \times 3 \times 3 \times 3 \times u \times v \times w$	3. $42 p$  $2 \times 3 \times 7 \times p$
4. $15 m^3 n^2$  $3 \times 5 \times m \times m \times m \times n \times n$	5. $6 a^5 b$  $3 \times 2 \times a \times a \times a \times a \times a \times b$	6. $78 a^2$  $2 \times 3 \times 13 \times a \times a$
7. $32 pqr$  $2 \times 2 \times 2 \times 2 \times 2 \times p \times q \times r$	8. $81 uv$  $3 \times 3 \times 3 \times 3 \times u \times v$	9. $68 c$  $2 \times 2 \times 17 \times c$
10. $84 cd^2$  $2 \times 2 \times 3 \times 7 \times c \times d \times d$	11. $8 g^2 h$  $2 \times 2 \times 2 \times g \times g \times g \times g \times h$	12. $90 x$  $2 \times 3 \times 3 \times 5 \times x$
13. $38 xyz$  $2 \times 19 \times x \times y \times z$	14. $8 yd$  $2 \times 2 \times 2 \times y \times d$	15. $15 x^4$  $3 \times 5 \times x \times x \times x \times x$