

EXTRA PRACTICE 9

Prime Factorization

Use after Section 2.1, Objective C Name _____

EXAMPLE: Find the prime factorization of 140.

a) We divide by the first prime, 2. $140 \div 2 = 70$.

b) We continue to divide by primes. $70 \div 2 = 35$.
 $35 \div 5 = 7$.

c) We are finished when we have a product of primes. The prime factorization is $140 = 2 \cdot 2 \cdot 5 \cdot 7$.

Find the prime factorization.

1. $378 =$ _____

2. $3135 =$

3. $550 =$ _____

4. $625 =$

5. $572 =$ _____

6. $1001 =$

7. $280 =$ _____

8. $540 =$

9. $612 =$ _____

10. $1848 =$

11. $2025 =$ _____

12. $513 =$

13. $1320 =$ _____

14. $372 =$

15. $138 =$ _____

16. $128 =$

17. $3000 =$ _____

18. $8550 =$

19. $139 =$ _____ $20. 146 =$
