REVIEW: Factors of Whole Numbers
Key Concept and Vocabulary
Factors of 12: 1, 2, 3, 4, 6. 12
Factors of 18: 1, 2, 3, 6. 9, 18

Greatest Common Factor


## Skill Examples

1. Factors of $1: 1$
2. Factors of 8: $1,2,4,8$
3. Factors of 7: 1,7
4. Factors of $30: 1,2,3,5,6,10,15,30$
5. Factors of 33: $1,3,11,33$

## PRACTICE MAKES PURR-FECT ${ }^{m}$

## Visual Model

There are 3 ways to factor 12 into 2 whole numbers. Each way is represented by a rectangle.



## Application Example

6. What is the greatest number of people with whom 20 pennies and 24 dimes can be shared so that each person gets the same share?

The greatest common factor (GCF) of 20 and 24 is 4.

## List all factors of both numbers. Then circle the greatest common factor.

7. Factors of 6: $1,2,3,6$

Factors of 9: 1, 3,9
9. Factors of $20: 1,2,4,5,10,20$

Factors of 30: 1, 2, 3, 5, 6, 10, 15, 30
11. Factors of 34: 1,2, 17, 34

Factors of 51: 1, 3, 17,51
8. Factors of 8: $1,2,4,8)$

Factors of 16: 1, 2, 4, 8, 16
10. Factors of 75 : $1,3,5,15,25,75$ Factors of 100: 1, 2, 4, 5, 10, 20, 25, 50, 100
12. Factors of 10: $1,2,5,10$

Factors of 18: 1, 2, 3, 6, 9, 18
13. Sketch all possible ways that 16 small squares can be arranged to form a rectangle.

| $16=1 \cdot 16$ |  |  |  |  |  |  |  |  |
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14. SHARING COINS What is the greatest number of people with whom 30 nickels and 36 dimes can be shared so that each person gets the same share? 6 people
15. DECK OF CARDS A deck of cards has 52 cards. The deck can be divided into 4 piles of exactly 13 cards each. Describe all the other ways the deck can be divided into equal piles. 1 pile of 52 cards, 2 piles of 26 cards, 13 piles of 4 cards, 26 piles of 2 cards, 52 piles of 1 card

