REVIEW: Divisibility Tests

Name _____

-Key Concept and Vocabulary -

A whole number is divisible by

- 2: if the number is even.
- 3: if the sum of the digits is divisible by 3.
- 5: if the ones digit is 0 or 5.
- 6: if the number is even and divisible by 3.
- 9: if the sum of the digits is divisible by 9.
- 10: if the ones digit is 0.

Divisibility Tests

Skill Examples

- 1. 48 is divisible by 3 because 4 + 8 = 12 is divisible by 3.
 - So, 3 is a factor of 48.
- **2.** 243 is divisible by 9 because 2+4+3=9 is divisible by 9.
 - So, 9 is a factor of 243.

Application Example

3. There are 127 chairs in the lunch room. Can you arrange the chairs into 5 equal rows?

The ones digit of 127 is not 0 or 5, it is 7.

No, you cannot arrange the chairs into 5 equal rows.

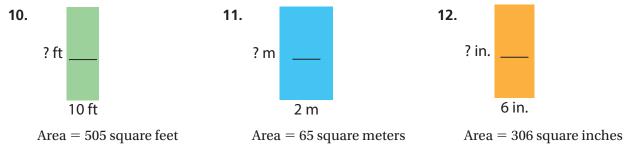


PRACTICE MAKES PURR-FECT®

Use a divisibility test to answer the question.

- **4.** Is 34 divisible by 2? _____
 5. Is 79 divisible by 6? _____
 6. Is 170 divisible by 10? _____
- **7.** Is 5 a factor of 55? _____
 8. Is 9 a factor of 81? _____
 9. Is 3 a factor of 952? _____

Determine whether the length of the missing side of the rectangle is a whole number.



- **13. CHARITY** A game show contestant wins \$975. Can he divide his winnings equally among 9 different charities? Explain.
- **14. SHARING TIME** A family of 3 people share a total of 270 cell phone minutes each month. Can each person use the same number of minutes each month? If so, how many?