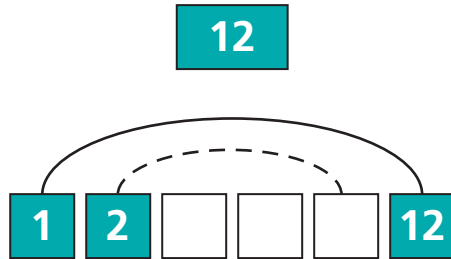


Factoring

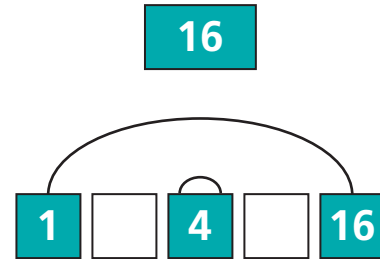
NCTM Standards 1, 2, 6, 8, 10

Write all the factors of each product in the diagram. Connect pairs of factors as shown.

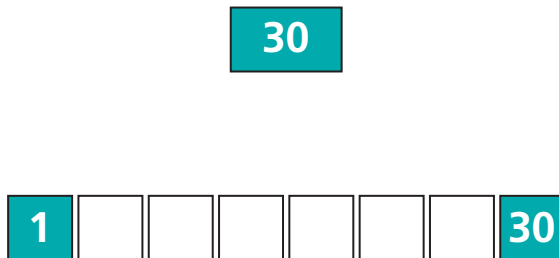
1



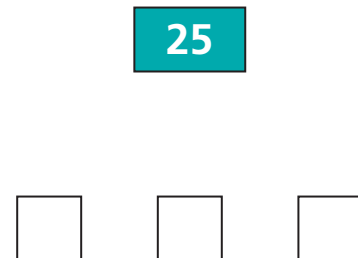
2



3



4



Solve the problem.



- 5 Lynn baked 24 cookies. How many cookies will each child get if there are

8 children? _____ 4 children? _____ 12 children? _____

3 children? _____ 6 children? _____ 2 children? _____

Explain a pattern you see in the number of children and the number of cookies.

List as many factors of each product as you can.

6

34

7

42

8

35

9

55



10 Explain how you found the factors of 42 in Problem 7. Use diagrams, numbers, or words in your explanation.

11 **Challenge** Solve the puzzle.

- A factor of 500
- A multiple of 20
- A multiple of 25
- Greater than 400 _____

Explain how you found the answer using diagrams, numbers, or words.
