Splitting Numbers



The number 16 can be split into pairs of two numbers in many ways. For example, three pairs of addends for 16 are:

4 + 12







Each pair of numbers can be multiplied. For example:

 $4 \times 12 = 48$



7 x 9 = 63





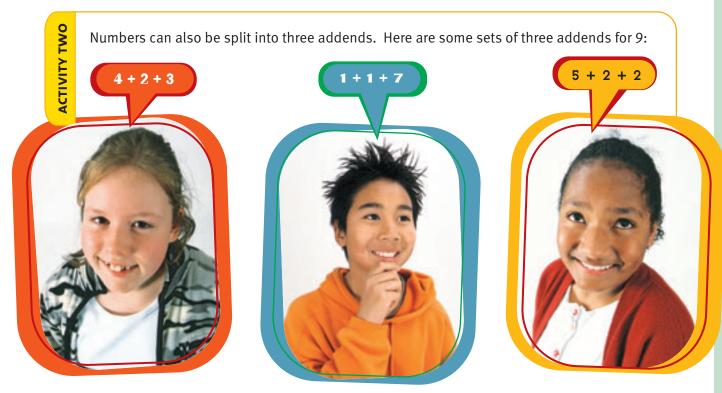


- List all the pairs of whole numbers that add up to 16.
 - Which of these pairs gives the greatest product?
- 2. For each number below, find the pair of whole numbers that has the greatest product.
 - a. 10

b. 12

18 c.

d. 13



These sets of three numbers can also be multiplied:



- (Find all the possible sets first.)
- 2. For each number below, find the set of three whole numbers that has the greatest product.
 - **a.** 12

b. 15

18 c.

- **d.** 20
- 3. Is there a pattern in the sets of two and three numbers that have the greatest product? Explain your answer.