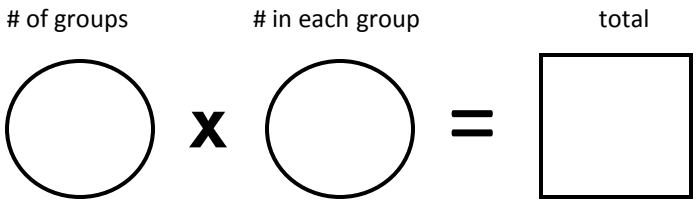
Equal Groups

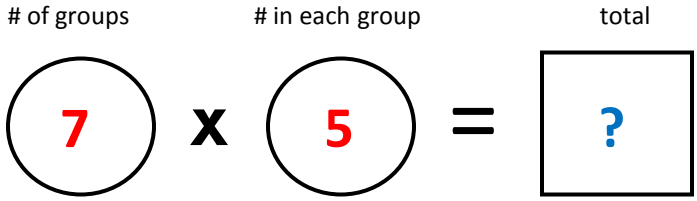
Solving Multiplication and Division Story Problems



In story problems involving **equal groups**, you are given 2 of the 3 above pieces of information. Your job is to find the third piece of information. To solve:

- If you know both of the ◯ then multiply to find the total.
- If you know the total □ and one of the ◯ then think of the missing factor **or** divide.

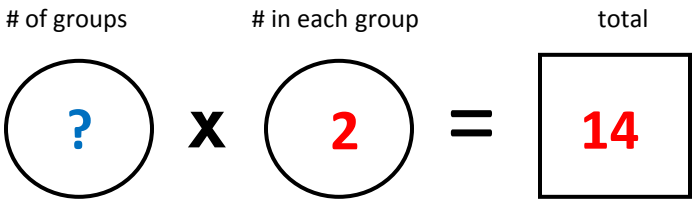
A. I drew 7 stars. Each star has 5 points. If you count all of the points, how many will there be?



# of groups = # of stars # in each group = # of points on each star

To solve (total # of points): Multiply both factors

B. There were 14 cookies. Two were put into each bag. How many bags were used?



Total # of stars = 14 # in each group = # of cookies in each bag

To solve (how many bags):

- **Think of how many 2's are in 14, Or**
- **Divide: 14 ÷ 2**

C. Elkins, 2018

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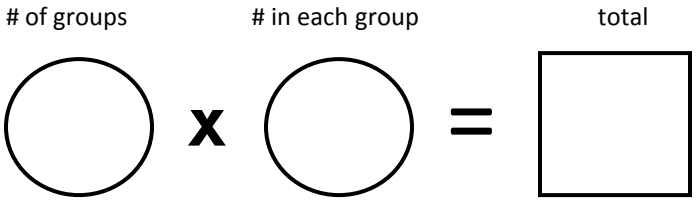
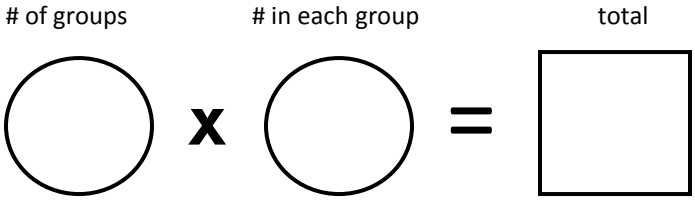
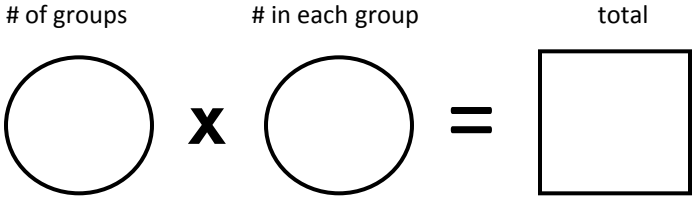
1. There are 3 teams playing basketball. Each team has 5 players. How many players are there all together?



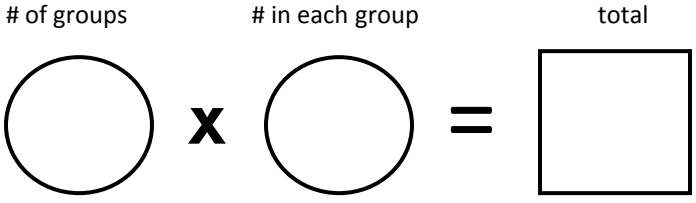
2. The bakery put their brownies into 6 boxes. Each box contained 8 brownies. How many brownies in all?



3. 40 children are going on a field trip. There will be 8 cars to take them. How many children can go in each car?



4. The gardener wants to plan 20 rose bushes. She wants to put 5 bushes in each row in the garden. How many rows are needed?



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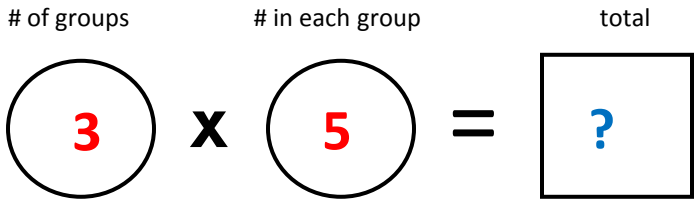
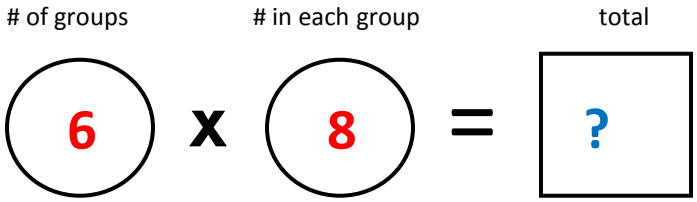
1. There are 3 teams playing basketball. Each team has 5 players. How many players are there all together?



Since both factors are known, multiply to find the total.

5. The bakery put their brownies into 6 boxes. Each box contained 8 brownies. How many brownies in all?



Since both factors are known, multiply to find the total.

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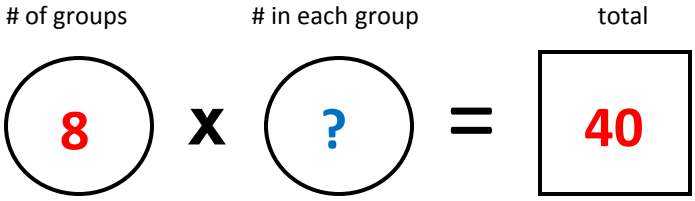
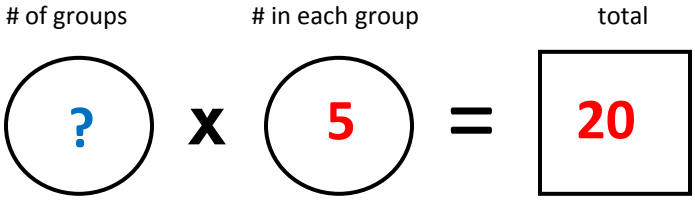


Think how many 8's in 40. OR

40 ÷ 8 = ?

3. The gardener wants to plant 20 rose bushes. She wants to put 5 bushes in each row in the garden. How many rows are needed?



Think how many 5's in 20. OR

20 ÷ 5 = ?

# of groups | # in each group | total

○ x ○ = □

# of groups | # in each group | total

○ x ○ = □

# of groups | # in each group | total

○ x ○ = □

# of groups | # in each group | total

○ x ○ = □

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