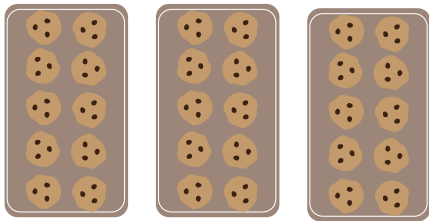


Repeated Addition and Multiplication

Multiplication can be thought of as addition of the same number multiple times in order to find a total. This is also called repeated addition. Both multiplication and repeated addition are used to find the total number of objects in equal groups.

For example, if you have 3 trays with 10 cookies on each tray, you can find the total number of cookies with this repeated addition sentence:

$$10 + 10 + 10 = 30 \text{ cookies}$$



Since there are 3 equal groups of 10, you could also solve this problem with a multiplication sentence:

$$3 \times 10 = 30$$

Number of groups Number of objects in each group Total number of objects

Practice writing both addition and multiplication sentences while solving this word problem:

Betty the baker signed up to bring 40 brownies to her school's bake sale. Figure out if Betty baked enough brownies by finding the total number of brownies in each batch. Batch #1 has been figured out for you.

BATCH #1



Repeated addition sentence: $5 + 5 + 5 = 15$

Multiplication sentence: $3 \times 5 = 15$

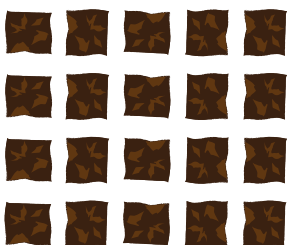
BATCH #2



Repeated addition sentence: $4 + 4 + 4 = 12$

Multiplication sentence: $4 \times 3 = 12$

BATCH #3



Repeated addition sentence: $5 + 5 + 5 + 5 = 20$

Multiplication sentence: $5 \times 4 = 20$

Did Betty have enough brownies for the bake sale? Yes
Show your work on the back of this paper.

$15 + 12 + 20 = 47$ brownies