MULTIPLICATION

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Grade 4 Nose Creek School

What is Multiplication?

"A mathematical operation where a number is added to itself a number of times."









Let's skip-count by three, five times. What did we end with?



Let's skip-count by three, five times. What did we end with?



Let's Practice!

Could this also be multiplication?





What about this?

2	2	2	2	2





Multiply - Combine Equal Groups There are many ways to think of multiplying!



Let's Practice!



combine equal groups Grepeated addition Product = 15 factor actor × 5 Strip 55 5 Diagram 000 Array 000 3 rows of 5 Equal Groups ... (\cdot) 3 groups of 5 Repeated 5+5+5= Addition 15 Number, Line 3 2 10 (3 hops of 5) (5)

Looking and Listening for Multiplication

How to find multiplication in word problems

Review: what does multiplication look like?

In an equation, the symbol for multiplication is an X.

Cone number is the number that is being multiplied and the other will be the one doing the multiplying.

(In multiplication, it doesn't matter whether the multiplier is first or second.)

Saying and Seeing Multiplication

When we talk about multiplication, you might hear:

"times" "multiplied by"

In written word problems, you might have to look for other hints: "groups of" "bags of" "rows of" "five in each box" Jenny and her brother are putting muffins away in boxes for a bake sale. They have six boxes and are put four muffins in each box. They have exactly enough muffins to fill all of their boxes. How many muffins do they have?

Dan has eight nickels in his piggy bank how much money has he saved up?

There is a store that sells piece of gum in packages of 8 pieces. A person walks in and buys four packages. How many pieces of gum did they buy? Robert is making paper flowers and wants to cut out all of the petals first. If he wants to make 7 flowers that each have 6 petals, how many petals does he need to make?

If I read for ten minutes each day for five days, how long did I read for?



Fun Math Activities

- Color by number: <u>https://www.coloringsquared.com/free-coloring-pages-math-for-kids/math-fact-coloring-pages/free-multiplication-worksheets-math-kids/</u>
 - Alien: <u>https://www.coloringsquared.com/worksheet/alien-basic-multiplication/</u>
 - Bike: <u>https://www.coloringsquared.com/worksheet/bike-basic-multiplication/</u>
- Websites from Baker that Students can use for practice
- https://www.multiplication.com/games/all-games
- https://www.timestables.com/games/
- https://www.mathplayground.com/index_multiplication_division.html
- https://www.mathsisfun.com/timestable.html

Program of studies outcomes for multiplication:

Specific Outcome 3

Apply mental mathematics strategies and number properties in order to understand and recall basic multiplication facts (multiplication tables) to 81 and related division facts.

Specific Outcome 4

Apply mental mathematics strategies for multiplication.

Specific Outcome 5

Demonstrate, with and without concrete materials, an understanding of multiplication (2-digit by 2-digit) to solve problems.

Note: Students investigate a variety of strategies, including standard/traditional algorithms, to become proficient in at least one appropriate and efficient strategy that they understand.