

# Narrowing the Multiplication Facts to 15

X	1	2	3	4	5	6	7	8	9	10
1	$\frac{1}{1}$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{5}$	$\frac{1}{6}$	$\frac{1}{7}$	$\frac{1}{8}$	$\frac{1}{9}$	$\frac{1}{10}$
2	$\frac{2}{2}$	$\frac{2}{4}$	$\frac{2}{6}$	$\frac{2}{8}$	$\frac{2}{10}$	$\frac{2}{12}$	$\frac{2}{14}$	$\frac{2}{16}$	$\frac{2}{18}$	$\frac{2}{20}$
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## Commutative Property:

- applying this property eliminates half of the facts
- $2 \times 8 = 8 \times 2$

## Zeros and Ones:

- applies the identity property and zero property of multiplication

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## Doubles:

- used when two is a factor
- students know these from addition doubles
- double the other factor  $2 \times 7 =$  double sevens or  $7 + 7$
- or students could count by 2s

## Five Facts:

- used when 5 is one of the factors
- practice counting by 5s
- visualize 5 rows of 5 dots

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### Terrific Tens:

- used when 10 is a factor
- found by skip counting by tens

### Nifty Nines:

- used when nine is factor
- tens digit of the factor is always one less than the other factor
- the sum of the digits in the product equal 9
- 7 x 9, 1 less than 7 is 6, 5 and 3 make 9, so the answer 63

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### Square Numbers:

- used when both factors are the same
- 1 x 1 = 1, 2 x 2 = 4, 3 x 3 = 9, ...