

# 3rd Grade Math

## Operations & Algebraic Thinking

### “I Can” Statements

**I can write and solve problems using multiplication and division.**

*I can understand multiplication by thinking about groups of objects.*

*I can understand division by thinking about how one group can be divided into smaller groups.*

*I can use what I know about multiplication and division to solve word problems.*

*I can find the missing number in a multiplication or division equation.*

*I can use the Commutative property of multiplication.*

*(If  $6 \times 4 = 24$ , then  $4 \times 6 = 24$ .)*

*I can use the Associative property of multiplication.*

*(To figure out  $3 \times 5 \times 2$ , I can multiply  $3 \times 5 = 15$ , then  $15 \times 2 = 30$  OR I can multiply  $5 \times 2 = 10$ , then  $3 \times 10 = 30$ .)*

*I can use the Distributive property of multiplication.*

*(To figure out  $8 \times 7$ , I can think of  $8 \times (5 + 2)$  which means  $(8 \times 5) + (8 \times 2) = 40 + 16 = 56$ .)*

*I can find the answer to a division problem by thinking of the missing factor in a multiplication problem.*

*(I can figure out  $32 \div 8$  because I know that  $8 \times 4 = 32$ .)*

*I can multiply and divide within 100 easily and quickly because I know how multiplication and division are related.*

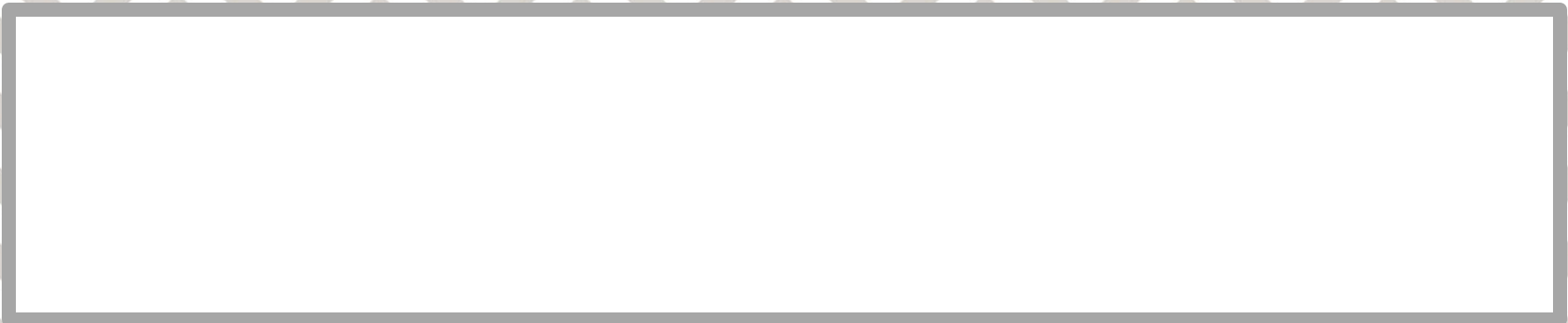
*(If I know that  $6 \times 8 = 48$ , then I also know that  $48 \div 8 = 6$ .)*

*I can solve two-step word problems that involve addition, subtraction, multiplication and division.*

*I can solve two-step word problems by writing an equation with a letter in place of the number I don't know.*

*I can use mental math to figure out if the answers to two-step word problems are reasonable.*

*I can find patterns in addition and multiplication tables and explain them using what I know about how numbers work.*



# *3rd Grade Math*

## *Number & Operations in Base Ten*

### *“I Can” Statements*

*I can use what I know about place value and operations (+,-,x,÷) to solve problems with larger numbers.*

*I can use place value to help me round numbers to the nearest 10 or 100.*

*I can quickly and easily add and subtract numbers within 1000.*



*I can multiply any one digit whole number by a multiple of 10. (ex:  $6 \times 90$  and  $4 \times 30$ )*



# 3rd Grade Math

## Number & Operations - Fractions

### “I Can” Statements

*I can understand fractions.*

*I can show and understand that fractions represent equal parts of a whole, where the top number is the part and the bottom number is the total number of parts in the whole.*

*I can understand fractions as numbers on a number line by showing them on a number line diagram.*

*I can label fractions on a number line because I know the space between any two numbers on the number line can be thought of as a whole.*

*I can show a fraction on a number line by marking off equal parts between two whole numbers.*

*I can understand how fractions with different numerators (top numbers) and denominators (bottom numbers) can actually be equal.*

*I can compare fractions by reasoning about their size.*

*I can understand two fractions as equivalent (equal) if they are the same size or at the same point on a number line.*

*I can recognize and write simple equivalent (equal) fractions and explain why they are equal using words or models.*

*I can show whole numbers as fractions.  
(ex:  $3 = 3/1$ )*

*I can recognize fractions that are equal to  
one whole.  
(ex:  $1 = 4/4$ )*

*I can compare two fractions with the same  
numerator (top number) or the same denominator  
(bottom number) by reasoning about their size.*

*I can understand that comparing two fractions is only reasonable if they refer to the same whole.*

*I can compare fractions with the symbols  $>$ ,  $=$ ,  $<$  and prove my comparison using models.*



# *3rd Grade Math*

## *Measurement & Data*

### *“I Can” Statements*



**I can solve problems that involve measurement and estimation.**

***I can tell and write time to the nearest minute.***

***I can measure time in minutes.***

*I can solve telling time word problems by adding and subtracting minutes.*

*I can measure liquids and solids with grams (g), kilograms (kg) and liters (l).*

*I can use addition, subtraction, multiplication and division to solve word problems about mass or volume.*

**I can understand how information is shared using numbers.**

*I can make a picture or bar graph to show data and solve problems using the information from the graphs.*

*I can create a line plot from measurement data, where the measured objects have been measured to the nearest whole number, half or quarter.*

**I can understand area.**

*I can understand that one way to measure plane shapes is by the area they cover.*

*I can understand that a "unit square" is a square with side lengths of 1 unit and that it is used to measure the area of plane shapes.*

*I can cover a plane shape with square units to measure its area.*

*I can measure area by counting unit squares (square cm, square m, square in, square ft).*

*I can understand area by thinking about multiplication and addition.*

*I can find the area of a rectangle using square tiles and also by multiplying the two side lengths.*

*I can solve real world problems about area using multiplication.*

*I can use models to show that the area of a rectangle can be found by using the distributive property (side lengths  $a$  and  $b+c$  is the sum of  $a \times b$  and  $a \times c$ ).*

*I can find the area of a shape by breaking it down into smaller shapes and then adding those areas to find the total area.*

***I can understand perimeter.***

*I can solve real world math problems using what I know about how to find the perimeter of shapes.*

# *3rd Grade Math*

## *Geometry*

### *“I Can” Statements*



*I can understand shapes better by using what I notice about them.*

*I can place shapes into categories depending upon their attributes (parts).*

*I can name a category of many shapes by looking at their attributes (parts).*

*I can recognize and draw quadrilaterals (shapes with four sides) including rhombuses, rectangles and squares.*

*I can divide shapes into parts with equal areas and show those areas as fractions.*



