Grade 4 Vocabulary/ Representation			
Vocabulary	Description	Representation	
Place Value	The numerical value that a digit has by virtue of its position in a number.	Horsonts/hundreds tors ones 0000 0000 place Value Chart	
Tape Diagram	Tape diagrams show the relationship between two quantities.	$   \begin{array}{c}     12 \\     \hline                               $	
Number Lines	A number line is a picture of a straight line on which every point is assumed to correspond to a real number and every real number to a point.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
Convert	To express a measurement in a different unit.	1000g = 1 kilogram 1000ml = 1 litre 100cm = 1 metre	
Area Models	A model for multiplication problems, in which the length and width of a rectangle represents the factors.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Number Bond	Number bond uses a part- whole-part concept to present the relation between the 3 numbers.	$ \begin{array}{r}                                     $	



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Array	An arrangement of a set of objects into equal rows and equal columns.	4000 (iii) (iii)	
Decompose	Decomposing means to take apart a number for example; 333 = 300 + 30 + 3	q + 6 = 15 1 = 5	
Perpendicular	Two lines are <i>perpendicular</i> if they intersect, and any of the angles formed between the lines are 90° angles.	The law from a ray's region to end office.	
Parallel	Two lines in a plane that do not intersect.	•	
Angle	Union of two different rays sharing a common vertex.	Angle	
Supplementary Angles	Two angles with a sum of 180 degrees.	135° 45° supplementary angles 135° + 45° = 180°	



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Complementary Angles	Two angles with a sum of 90 degrees.	$\frac{30^{\circ}}{10^{\circ}}$ $\frac{30^{\circ}}{10^{\circ}}$ $\frac{30^{\circ}}{10^{\circ}}$ $\frac{30^{\circ}}{10^{\circ}}$ $\frac{30^{\circ}}{10^{\circ}}$	
Line Plot	A line plot is a graph that shows frequency of data along a number line. It is best to use a line plot when comparing fewer than 25 numbers. It is a quick, simple way to organize data.	The following numbers are the result from a test taken by a class of 24 students: 16, 14, 17, 11, 14, 19, 11, 17, 12, 21, 22, 18, 11, 16, 15, 14, 18, 12, 13, 16, 17, 15, 13, 17 $\begin{array}{c} & & \\ $	
Decimal Expanded Form	The expanded form of a decimal number is the number written as the sum of its whole number and decimal place values.	(2 × 10) + (4 × 1) + (5 × 0.1) + (9 × 0.01)= 24.59	
Fraction Expanded Form	The expanded form of a fraction is the number written as the sum of its whole number and fractional place values.	$(2 \times 10) + (4 \times 1) + (5 \times \frac{1}{10}) + (9 \times \frac{1}{100}) = 24 \frac{59}{100}$	
Two-column Table	A two-column table shows the relationship between two values.	There are 160 Ounces in 10 pounds in 3 pounds. $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ 1	
Bundling	Bundling ten ones to make 1 ten or 10 tens to make 100	IC II II II II IZ	

