| Grade 4 Vocabularyl Representation |  |  |
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| Vocabulary | Description | Representation |
| Place Value | The numerical value that a digit has by virtue of its position in a number. |  |
| Tape Diagram | Tape diagrams show the relationship between two quantities. |  |
| 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. | $\begin{array}{ll} f_{20} & f_{2,200}^{1} \\ f_{15} & f_{1,500} \\ f_{10} & f_{1,000} \end{array}$ |
| Convert | To express a measurement in a different unit. | $\begin{aligned} & 1000 \mathrm{~g}=1 \text { kilogram } \\ & 1000 \mathrm{ml}=1 \text { litre } \\ & 100 \mathrm{~cm}=1 \text { metre } \end{aligned}$ |
| Area Models | A model for multiplication problems, in which the length and width of a rectangle represents the factors. | 20  6 <br> 80 24  <br>    <br>  600 180 |
| Number Bond | Number bond uses a part-whole-part concept to present the relation between the 3 numbers. |  |



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| Complementary Angles | Two angles with a sum of 90 degrees. |  |
| 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: <br> $16,14,17,11,14,19,11,17,12,21,22,18$, $11,16,15,14,18,12,13,16,17,15,13,17$ |
| Decimal <br> Expanded Form | The expanded form of a decimal number is the number written as the sum of its whole number and decimal place values. | $(2 \times 10)+(4 \times 1)+(5 \times 0.1)+(9 \times 0.01)=24.59$ |
| Fraction Expanded Form | The expanded form of a fraction is the number written as the sum of its whole number and fractional place values. | $(2 \times 10)+(4 \times 1)+\left(5 \times \frac{1}{10}\right)+\left(9 \times \frac{1}{100}\right)=24 \frac{59}{100}$ |
| Two-column Table | A two-column table shows the relationship between two values. |  |
| Bundling | Bundling ten ones to make 1 ten or 10 tens to make 100 |  |

