|  |  |  |
| --- | --- | --- |
| Term | Definition | Example |
| Lots of, groups of | Equal groups of amounts  |  7 lots of 5 = 35 |
| X, times, multiply, multiplied by | Combining sets of equal groupsRepeated addition | 5 + 5 + 5 + 5 + 5 + 5 + 5 = 357 lots of 5 = 357 x 5 = 5 |
| Repeated addition | Counting equal groups in 2s, 5s or tens | 5 + 5 + 5 + 5 = 20 |
| Product | The result of multiplying two numbers together | 4 X 8 = 32product |
| Array | Rectangular arrangements to show equal groups |  |
| Column | Objects lined top to bottom. Objects lines form left to right | Column. Row  |
| Row |

|  |  |  |
| --- | --- | --- |
| Term | Definition | Example |
| Double | Total of two sets of the same amount |  Double 455 = 910 |
| Half | Divide the amount into two equal sets. | Half of 866 = 433 |
| Multiple | What is created after multiplying the number by a whole number. | A picture containing box and whisker chart  Description automatically generated |
| Factor | What is multiplied to get the number |
| Prime | Numbers that have only 2 factors: 1 and themselves.  | The first 5 prime numbers are 2, 3, 5, 7, and 11. |
| Composite | Numbers with more than 2 factors  | 16 has factors 1, 2, 4, 8, 16 |
| **Instructional Vocabulary** |
| Carry on, Continue, Repeat | Describe the pattern, describe the rule |
| What comes next? Predict | Find, find all |
| Find different | Investigate |

**Multiplication – Year Six**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| All times tables | 2 x table 7 x table3 x table 8 x table 4 x table 9 x table5 x table 10 x table6 x table 11 x table  12 x table |  | Partition to multiply mentally | 235x 28 = 200 x 20 + 30 x 20 + 5 x 20+ 200 x 8 + 30 x 8 + 5 x 84000 + 600 + 100 + 1,600 + 240 + 404000+1,600 + 600 + 100 + 240 +405,600 + 940 + 406, 580 |
| Apply place value to derive multiplication facts | 3 x 4 = 12 therefore 3 x 0.4 = 1.25 x 7 = 30 therefore 5,000 x 7,000 = 35,0009 x 6 = 64 therefore 0.9 x 0.6 = 0.54 |  | Double larger numbers and decimals | Double = multiply by 242,323 doubled = 84,6469.6 doubled = 19.20.38 doubled = 0.76 |

**Essential Knowledge**

