|  |  |  |
| --- | --- | --- |
| 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 groups  Repeated addition | 5 + 5 + 5 + 5 + 5 + 5 + 5 = 35  7 lots of 5 = 35  7 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 = 32  product |
| 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 table  3 x table 8 x table  4 x table 9 x table  5 x table 10 x table  6 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 8  4000 + 600 + 100 + 1,600 + 240 + 40  4000+1,600 + 600 + 100 + 240 +40  5,600 + 940 + 40  6, 580 |
| Apply place value to derive multiplication facts | 3 x 4 = 12 therefore 3 x 0.4 = 1.2  5 x 7 = 30 therefore 5,000 x 7,000 = 35,000  9 x 6 = 64 therefore 0.9 x 0.6 = 0.54 |  | Double larger numbers and decimals | Double = multiply by 2  42,323 doubled = 84,646  9.6 doubled = 19.2  0.38 doubled = 0.76 |



**Essential Knowledge**

