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| --- | --- | --- |
| 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 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Term | Definition | | Example |
| Column | Objects lined top to bottom.  Objects lines form left to right | | Column. Row |
| Row |
| Double | Total of two sets of the same amount | | Double 4 |
| Half | Divide the amount into two equal sets. | | Half of 8 |
| 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 | |
| **Instructional Vocabulary** | | | |
| Carry on, Continue, Repeat | | Describe the pattern, describe the rule | |
| What comes next? Predict | | What would we try next? How did you work it out? | |
| Pattern, puzzle, | | Number sentence, equation | |
| Calculation, calculate, mental calculation | | Sign, symbol, equation | |

**Multiplication – Year Four**

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| --- | --- | --- | --- | --- |
| Previous tables learnt so far | 2 x table 5 x table  3 x table 6 x table  4 x table 8 x table |  | 9 x table | 1 x 9 = 9 7 x 9= 63  2 x 9 = 18 8 x 9= 72  3 x 9 = 27 9 x 9= 81  4 x 9 = 36 10 x 9 = 90  5 x 9 = 45 11 x 9 = 99  6 x 9 = 54 12 x 9= 108 |
| 10 x bigger | Understanding of place value to make numbers ten times bigger.  By multiplying by 10 the value of digits increases by 10. |  | 11 x table | 1 x 11 = 11 7 x 11 = 77  2 x 11 = 22 8 x 11 = 88  3 x 11 = 33 9 x 11 = 99  4 x 11 = 44 10 x 11 = 110  5 x 11 = 55 11 x 11 = 121  6 x 11 = 66 12 x 11 = 132 |
| 7 x table | 1 x 7= 7 7 x 7= 49  2 x 7 = 14 8 x 7= 56  3 x 7 = 21 9 x 7= 63  4 x 7 = 28 10 x 7 = 70  5 x 7 = 35 11 x 7 = 77  6 x 7 = 42 12 x 7 = 84 |  | 12 x table | 1 x 12 = 12 7 x 12 = 84  2 x 12 = 24 8 x 12 = 96  3 x 12 = 36 9 x 12 = 108  4 x 12 = 48 10 x 12 = 120  5 x 12 = 60 11 x 12 = 132  6 x 12 = 72 12 x 12 = 144 |



**Essential Knowledge**

