

L5-6 : Find Patterns in Multiplication Table

| \times | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|----------|---|----|----|----|----|----|----|----|----|----|-----|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 2 | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| 3 | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 |
| 4 | 0 | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 |
| 5 | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| 6 | 0 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 |
| 7 | 0 | 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 | 70 |
| 8 | 0 | 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 |
| 9 | 0 | 9 | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81 | 90 |
| 10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |

Whole numbers are multiplied by 2. What pattern do you see in the products?

Name a pattern that occurs when multiplying whole numbers by 3.

Look at the 1s and 2s rows. What is the relationship between the products in the 2s row to the products in the 1s row?

Look at the 5s column and the 5s row. What is the relationship between this column and row?

What does the table tell you about multiplying any number by 1?

How are the numbers in the 9s column related to the numbers in the 4s and 5s columns?

| 4 | 5 | 9 |
|----|----|----|
| 0 | 0 | 0 |
| 4 | 5 | 9 |
| 8 | 10 | 18 |
| 12 | 15 | 27 |
| 16 | 20 | 36 |
| 20 | 25 | 45 |
| 24 | 30 | 54 |
| 28 | 35 | 63 |
| 32 | 40 | 72 |
| 36 | 45 | 81 |
| 40 | 50 | 90 |