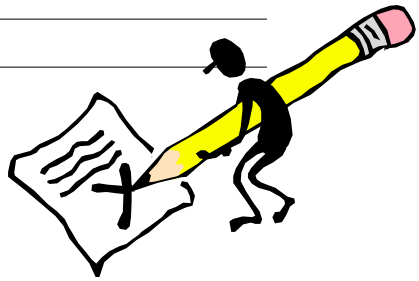
Homeroom: R

Name: _____

Date: _____

# Math Journal



Learning Target

I can find factor pairs for numbers to 100, and use understanding of factors to define prime and composite.

## FACTOR PAIR-A-PALOOZA!

Color **PRIME** numbers red.

Color **COMPOSITE** numbers blue.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |
| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

| Product | Multiplication Equations | | Factors | Prime or Composite |
|---|---|---|---|---|
| 1 | x | | 1: | P C |
| 2 | x | x | 2: | P C |
| 3 | x | x | 3: | P C |
| 4 | x | x | 4: | P C |
| | x | | | |
| 5 | x | x | 5: | P C |
| 6 | x | x | 6: | P C |
| | x | x | | |
| 7 | x | x | 7: | P C |
| 8 | x | x | 8: | P C |
| | x | x | | |
| 9 | x | x | 9: | P C |
| | x | | | |
| 10 | x | x | 10: | P C |
| | x | x | | |
| 11 | x | x | 11: | P C |
| 12 | x | x | 12: | P C |
| | x | x | | |
| | x | x | | |
| 13 | x | x | 13: | P C |
| 14 | x | x | 14: | P C |
| | x | x | | |
| 15 | x | x | 15: | P C |
| | x | x | | |
| 16 | x | x | 16: | P C |
| | x | x | | |
| | x | | | |
| 17 | x | x | 17: | P C |

| Product | Multiplication Equations | | Factors | Prime or Composite |
|---|---|---|---|---|
| 18 | x | x | 18: | P C |
| | x | x | | |
| | x | x | | |
| 19 | x | x | 19: | P C |
| 20 | x | x | 20: | P C |
| | x | x | | |
| | x | x | | |
| 21 | x | x | 21: | P C |
| | x | x | | |
| 22 | x | x | 22: | P C |
| | x | x | | |
| 23 | x | x | 23: | P C |
| 24 | x | x | 24: | P C |
| | x | x | | |
| | x | x | | |
| | x | x | | |
| 25 | x | x | 25: | P C |
| | x | | | |
| 26 | x | x | 26: | P C |
| | x | x | | |
| 27 | x | x | 27: | P C |
| | x | x | | |
| 28 | x | x | 28: | P C |
| | x | x | | |
| | x | x | | |
| 29 | x | x | 29: | P C |

**Noticings**

| Product | Multiplication Equations | | Factors | Prime or Composite |
|---|---|---|---|---|
| 30 | x | x | 30: | P C |
| | x | x | | |
| | x | x | | |
| | x | x | | |
| 31 | x | x | 31: | P C |
| 32 | x | x | 32: | P C |
| | x | x | | |
| | x | x | | |
| 33 | x | x | 33: | P C |
| | x | x | | |
| 34 | x | x | 34: | P C |
| | x | x | | |
| 35 | x | x | 35: | P C |
| | x | x | | |
| 36 | x | x | 36: | P C |
| | x | x | | |
| | x | x | | |
| | x | x | | |
| | x | | | |
| 37 | x | x | 37: | P C |
| 38 | x | x | 38: | P C |
| | x | x | | |
| 39 | x | x | 39: | P C |
| | x | x | | |
| 40 | x | x | 40: | P C |
| | x | x | | |
| | x | x | | |
| | x | x | | |

| Product | Multiplication Equations | | Factors | Prime or Composite |
|---|---|---|---|---|
| 41 | x | x | 41: | P C |
| 42 | x | x | 42: | P C |
| | x | x | | |
| | x | x | | |
| | x | x | | |
| 43 | x | x | 43: | P C |
| 44 | x | x | 44: | P C |
| | x | x | | |
| | x | x | | |
| 45 | x | x | 45: | P C |
| | x | x | | |
| | x | x | | |
| 46 | x | x | 46: | P C |
| | x | x | | |
| 47 | x | x | 47: | P C |
| 48 | x | x | 48: | P C |
| | x | x | | |
| | x | x | | |
| | x | x | | |
| | x | x | | |
| 49 | x | x | 49: | P C |
| | x | | | |
| 50 | x | x | 50: | P C |
| | x | x | | |
| | x | x | | |
| 51 | x | x | 51: | P C |
| | x | x | | |

| Product | Multiplication Equations | | Factors | Prime or Composite |
|---|---|---|---|---|
| 52 | x | x | 52: | P C |
| | x | x | | |
| | x | x | | |
| 53 | x | x | 53: | P C |
| 54 | x | x | 54: | P C |
| | x | x | | |
| | x | x | | |
| | x | x | | |
| 55 | x | x | 55: | P C |
| | x | x | | |
| 56 | x | x | 56: | P C |
| | x | x | | |
| | x | x | | |
| | x | x | | |
| 57 | x | x | 57: | P C |
| | x | x | | |
| 58 | x | x | 58: | P C |
| | x | x | | |
| 59 | x | x | 59: | P C |
| 60 | x | x | 60: | P C |
| | x | x | | |
| | x | x | | |
| | x | x | | |
| | x | x | | |
| | x | x | | |
| 61 | x | x | 61: | P C |
| 62 | x | x | 62: | P C |
| | x | x | | |

| Product | Multiplication Equations | | Factors | Prime or Composite |
|---|---|---|---|---|
| 63 | x | x | 63: | P C |
| | x | x | | |
| | x | x | | |
| 64 | x | x | 64: | P C |
| | x | x | | |
| | x | x | | |
| | x | | | |
| 65 | x | x | 65: | P C |
| | x | x | | |
| 66 | x | x | 66: | P C |
| | x | x | | |
| | x | x | | |
| | x | x | | |
| 67 | x | x | 67: | P C |
| 68 | x | x | 68: | P C |
| | x | x | | |
| | x | x | | |
| 69 | x | x | 69: | P C |
| | x | x | | |
| 70 | x | x | 70: | P C |
| | x | x | | |
| | x | x | | |
| | x | x | | |
| 71 | x | x | 71: | P C |

**Noticings**

| Product | Multiplication Equations | | Factors | Prime or Composite |
|---|---|---|---|---|
| 72 | x | x | 72: | P C |
| | x | x | | |
| | x | x | | |
| | x | x | | |
| | x | x | | |
| | x | x | | |
| 73 | x | x | 73: | P C |
| 74 | x | x | 74: | P C |
| | x | x | | |
| 75 | x | x | 75: | P C |
| | x | x | | |
| | x | x | | |
| 76 | x | x | 76: | P C |
| | x | x | | |
| | x | x | | |
| 77 | x | x | 77: | P C |
| | x | x | | |
| 78 | x | x | 78: | P C |
| | x | x | | |
| | x | x | | |
| 79 | x | x | 79: | P C |
| 80 | x | x | 80: | P C |
| | x | x | | |
| | x | x | | |
| | x | x | | |
| | x | x | | |

| Product | Multiplication Equations | | Factors | Prime or Composite |
|---|---|---|---|---|
| 81 | x | x | 81: | P C |
| | x | x | | |
| | x | | | |
| 82 | x | x | 82: | P C |
| | x | x | | |
| 83 | x | x | 83: | P C |
| 84 | x | x | 84: | P C |
| | x | x | | |
| | x | x | | |
| | x | x | | |
| | x | x | | |
| | x | x | | |
| 85 | x | x | 85: | P C |
| | x | x | | |
| 86 | x | x | 86: | P C |
| | x | x | | |
| 87 | x | x | 87: | P C |
| | x | x | | |
| 88 | x | x | 88: | P C |
| | x | x | | |
| 89 | x | x | 89: | P C |
| 90 | x | x | 90: | P C |
| | x | x | | |
| | x | x | | |
| | x | x | | |
| | x | x | | |
| | x | x | | |

| Product | Multiplication Equations | | Factors | Prime or Composite |
|---|---|---|---|---|
| 91 | x | x | 91: | P C |
| | x | x | | |
| 92 | x | x | 92: | P C |
| | x | x | | |
| | x | x | | |
| 93 | x | x | 93: | P C |
| | x | x | | |
| 94 | x | x | 94: | P C |
| | x | x | | |
| 95 | x | x | 95: | P C |
| | x | x | | |
| 96 | x | x | 96: | P C |
| | x | x | | |
| | x | x | | |
| | x | x | | |
| | x | x | | |
| | x | x | | |
| 97 | x | x | 97: | P C |
| 98 | x | x | 98: | P C |
| | x | x | | |
| | x | x | | |
| 99 | x | x | 99: | P C |
| | x | x | | |
| | x | x | | |

**Noticings**

| Product | Multiplication Equations | | **Factors** | **Prime or Composite** |
|---|---|---|---|---|
| 100 | x | x | 100: | P C |
| | x | x | | |
| | x | x | | |
| | x | x | | |
| | x | | | |

**Reflect:**
Claim: All prime numbers are odd numbers.

Is this true? Explain.
List ALL of the prime numbers less than 20 in numerical order.

Use the list to help prove your claim.

Nunez has 28 stickers to divide evenly among 3 friends. He thinks there will be no leftovers. Use what you know about factor pairs to **explain** if Nunez is correct.

**Reflect:**
Claim: Only even numbers are composite.

Is this true? Explain.
List ALL of the prime numbers less than 20 in numerical order.

Use the list to help prove your claim.