

Multiplication Connect 4 Board

1	2	3	4	5	6
7	8	9	10	12	14
15	16	18	20	21	24
26	27	28	30	32	35
36	40	42	45	48	49
54	56	63	64	72	81

Cards for  
Multiplication  
Game  
(1 set per  
student)

1

Multiplication  
Connect 4 Cards

2

Multiplication  
Connect 4 Cards

3

Multiplication  
Connect 4 Cards

4

Multiplication  
Connect 4 Cards

5

Multiplication  
Connect 4 Cards

6

Multiplication  
Connect 4 Cards

7

Multiplication  
Connect 4 Cards

8

Multiplication  
Connect 4 Cards

9

Multiplication  
Connect 4 Cards

Cards for  
Multiplication  
Game

1

Multiplication  
Connect 4 Cards

2

Multiplication  
Connect 4 Cards

3

Multiplication  
Connect 4 Cards

4

Multiplication  
Connect 4 Cards

5

Multiplication  
Connect 4 Cards

6

Multiplication  
Connect 4 Cards

7

Multiplication  
Connect 4 Cards

8

Multiplication  
Connect 4 Cards

9

Multiplication  
Connect 4 Cards

# Multiplication Table

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

$$20 \times 60$$

Expanded Fact Cards

$$3 \times 3$$

Expanded Fact Cards

$$2 \times 6$$

Expanded Fact Cards

$$30 \times 30$$

Expanded Fact Cards

$$5 \times 6$$

Expanded Fact Cards

$$2 \times 8$$

Expanded Fact Cards

$$40 \times 80$$

Expanded Fact Cards

$$20 \times 80$$

Expanded Fact Cards

$$50 \times 60$$

Expanded Fact Cards

$$4 \times 8$$

Expanded Fact Cards

$$70 \times 30$$

Expanded Fact Cards

$$7 \times 3$$

Expanded Fact Cards

$$90 \times 20$$

Expanded Fact Cards

$$9 \times 2$$

Expanded Fact Cards

$$60 \times 30$$

Expanded Fact Cards

$$6 \times 3$$

Expanded Fact Cards

$$58 \times 6$$

2-digit x 1-digit Cards

$$64 \times 8$$

2-digit x 1-digit Cards

$$91 \times 2$$

2-digit x 1-digit Cards

$$33 \times 4$$

2-digit x 1-digit Cards

$$72 \times 9$$

2-digit x 1-digit Cards

$$47 \times 3$$

2-digit x 1-digit Cards

$$86 \times 5$$

2-digit x 1-digit Cards

$$25 \times 7$$

2-digit x 1-digit Cards

# Partial Products Method

**Step 1.)** Estimate

**Step 2.)** Break apart factors

**Step 3.)** Multiply the parts

**Step 4.)** Add the partial products

$$6 \times 5$$

Partial Products Cards

$$60 \times 8$$

Partial Products Cards

$$4 \times 8$$

Partial Products Cards

$$40 \times 3$$

Partial Products Cards

$$70 \times 9$$

Partial Products Cards

$$2 \times 9$$

Partial Products Cards

$$7 \times 3$$

Partial Products Cards

$$30 \times 4$$

Partial Products Cards

$$3 \times 4$$

Partial Products Cards

$$20 \times 7$$

Partial Products Cards

$$50 \times 6$$

Partial Products Cards

$$8 \times 6$$

Partial Products Cards

$$5 \times 7$$

Partial Products Cards

$$90 \times 2$$

Partial Products Cards

$$1 \times 2$$

Partial Products Cards

$$80 \times 5$$

Partial Products Cards



**Partial Products  
Method**

**Step 1.)** Estimate

**Step 2.)** Break apart  
factors

**Step 3.)** Multiply the  
parts

**Step 4.)** Add the partial  
products

**Partial Products  
Method**

**Step 1.)** Estimate

**Step 2.)** Break apart  
factors

**Step 3.)** Multiply the  
parts

**Step 4.)** Add the partial  
products

**Partial Products  
Method**

**Step 1.)** Estimate

**Step 2.)** Break apart  
factors

**Step 3.)** Multiply the  
parts

**Step 4.)** Add the partial  
products

$$5 \times 63 = 315$$

Go Fish 2-digit x 1-digit Cards

$$63 \times 5 = 315$$

Go Fish 2-digit x 1-digit Cards

$$315 \div 63 = 5$$

Go Fish 2-digit x 1-digit Cards

$$315 \div 5 = 63$$

Go Fish 2-digit x 1-digit Cards

$$4 \times 56 = 224$$

Go Fish 2-digit x 1-digit Cards

$$56 \times 4 = 224$$

Go Fish 2-digit x 1-digit Cards

$$224 \div 4 = 56$$

Go Fish 2-digit x 1-digit Cards

$$224 \div 56 = 4$$

Go Fish 2-digit x 1-digit Cards

$$6 \times 41 = 246$$

Go Fish 2-digit x 1-digit Cards

$$41 \times 6 = 246$$

Go Fish 2-digit x 1-digit Cards

$$246 \div 6 = 41$$

Go Fish 2-digit x 1-digit Cards

$$246 \div 41 = 6$$

Go Fish 2-digit x 1-digit Cards

$$3 \times 39 = 117$$

Go Fish 2-digit x 1-digit Cards

$$39 \times 3 = 117$$

Go Fish 2-digit x 1-digit Cards

$$117 \div 3 = 39$$

Go Fish 2-digit x 1-digit Cards

$$117 \div 39 = 3$$

Go Fish 2-digit x 1-digit Cards

$$8 \times 28 = 224$$

Go Fish 2-digit x 1-digit Cards

$$28 \times 8 = 224$$

Go Fish 2-digit x 1-digit Cards

$$224 \div 8 = 28$$

Go Fish 2-digit x 1-digit Cards

$$224 \div 28 = 8$$

Go Fish 2-digit x 1-digit Cards

$$7 \times 45 = 315$$

Go Fish 2-digit x 1-digit Cards

$$45 \times 7 = 315$$

Go Fish 2-digit x 1-digit Cards

$$315 \div 7 = 45$$

Go Fish 2-digit x 1-digit Cards

$$315 \div 45 = 7$$

Go Fish 2-digit x 1-digit Cards

$$3 \times 82 = 246$$

Go Fish 2-digit x 1-digit Cards

$$82 \times 3 = 246$$

Go Fish 2-digit x 1-digit Cards

$$246 \div 3 = 82$$

Go Fish 2-digit x 1-digit Cards

$$246 \div 82 = 3$$

Go Fish 2-digit x 1-digit Cards

$$7 \times 24 = 168$$

Go Fish 2-digit x 1-digit Cards

$$24 \times 7 = 168$$

Go Fish 2-digit x 1-digit Cards

$$168 \div 7 = 24$$

Go Fish 2-digit x 1-digit Cards

$$168 \div 24 = 7$$

Go Fish 2-digit x 1-digit Cards

$$8 \times 21 = 168$$

Go Fish 2-digit x 1-digit Cards

$$21 \times 8 = 168$$

Go Fish 2-digit x 1-digit Cards

$$168 \div 21 = 8$$

Go Fish 2-digit x 1-digit Cards

$$168 \div 8 = 21$$

Go Fish 2-digit x 1-digit Cards

Estimation Cards  
*(Print double-sided for answer to match the problem)*

There are 6 children at the party. Each child gets the same number of balloons. If there are 31 balloons, how many balloons will each child receive?

Estimation Cards

If the youth group washed 35 cars in 4 hours for the fundraiser, about how many cars did they wash each hour?

Estimation Cards

Mr. Jones' garden is 77 square. If the length is about 10 feet, about how long could the width be?

Estimation Cards

Leslie's car gets 29 miles to the gallon. How far can she drive on 7 gallons of gas?

Estimation Cards

$$31 \div 6 = 5 \text{ r } 1$$

Estimation

$$30 \div 6 = 5$$

under

$$36 \div 6 = 6$$

Estimation Cards

$$35 \div 4 = 8 \text{ r } 3$$

Estimation

$$32 \div 8 = 8$$

over

$$28 \div 7 = 4$$

Estimation Cards

$$29 \times 7 = 203$$

Estimation

$$30 \times 7 = 210$$

over

Estimation Cards

$$77 \div 10 = 7 \text{ r } 7$$

Estimation

$$70 \div 10 = 7$$

over

$$80 \div 10 = 8$$

Estimation Cards

Raul had 9 overdue books. He had to pay a fine of 45 cents. How much was the fine per book?

Estimation Cards

Bananas are 43 cents a pound. How much would it cost to buy 12 pounds of bananas?

Estimation Cards

If a car dealership sells about 48 cars each week, how many cars will it sell in 5 weeks?

Estimation Cards

It will cost \$53 per player for the soccer team to get new uniforms. If there are 21 players on the team, how much will it cost altogether?

Estimation Cards



$$43 \times 12 = 516$$

Estimation

$$40 \times 12 = 480 \text{ under}$$

Estimation Cards

$$53 \times 21 = 1,113$$

Estimation

$$50 \times 20 = 1,000 \text{ under}$$

Estimation Cards

$$45 \div 9 = 5$$

Estimation

$$50 \div 10 = 5 \text{ same}$$

Estimation Cards

$$48 \times 5 = 240$$

Estimation

$$50 \times 5 = 250 \text{ over}$$

Estimation Cards

Missing Steps Cards  
(Print double-sided for answer to match the problem)

$$86 \times 23 = 1,978$$

$$\downarrow \quad \downarrow$$

$$90 \times 20 = 1,800$$

$20 \times 80 = \underline{\quad}$	$20 \times 6 = \underline{\quad}$
$3 \times 80 = \underline{\quad}$	$3 \times 6 = \underline{\quad}$

$\underline{\quad}$   
 $\underline{\quad}$

$$49 \times 64 = \underline{\quad}$$

$$\downarrow \quad \downarrow$$

$$50 \times 60 = 3,000$$

40	9
$60 \times 40 = 2,400$	$60 \times 9 = 540$
60	
4	
$4 \times 40 = 160$	$4 \times 9 = 36$

$$\underline{\quad} + \underline{\quad} = 2,940$$

$$\underline{\quad} + \underline{\quad} = 196$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

Missing Steps Cards

$$89 \times 41 = 3,649$$

$$\downarrow \quad \downarrow$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

40	40
$40 \times 80 = 3,200$	$40 \times 9 = 360$
1	
$1 \times 80 = 80$	$1 \times 9 = 9$

40  
1

$$3,200 + 360 = 3,560$$

$$80 + 9 = 89$$

$$3,560 + 89 = 3,649$$

Missing Steps Cards

$$92 \times 27 = 2,700$$

$$\downarrow \quad \downarrow$$

$$90 \times 30 = 2,700$$

90	2
$\underline{\quad} \times \underline{\quad} = \underline{\quad}$	$\underline{\quad} \times \underline{\quad} = \underline{\quad}$
20	
7	
$\underline{\quad} \times \underline{\quad} = \underline{\quad}$	$\underline{\quad} \times \underline{\quad} = \underline{\quad}$

20  
7

$$1,800 + 40 = 1,840$$

$$630 + 14 = 644$$

$$1,840 + 644 = 2,484$$

Missing Steps Cards

Missing Steps Cards

### Missing Steps Cards

Key

$$86 \times 23 = 1,978$$

$$\downarrow \quad \downarrow$$

$$90 \times 20 = 1,800$$

$$\frac{80}{}$$

$$\frac{6}{}$$

60

$$60 \times 40 = 2,400$$

$$60 \times 9 = 540$$

$$\frac{2,400}{} + \frac{540}{} = 2,940$$

$$\frac{160}{} + \frac{36}{} = 196$$

$$\frac{2,940}{} + \frac{196}{} = 3,136$$

4

$$4 \times 40 = 160$$

$$4 \times 9 = 36$$

$\frac{3}{}$

$$3 \times 80 = 240$$

$$3 \times 6 = 18$$

$$1,600 + 120 = 1,720$$

$$240 + 18 = 258$$

$$1,720 + 258 = 1,978$$

### Missing Steps Cards

$$92 \times 27 = 2,700$$

$$\downarrow \quad \downarrow$$

$$90 \times 30 = 2,700$$

90

2

20

$$\frac{20}{} \times \frac{90}{} = 1,800$$

$$\frac{20}{} \times \frac{2}{} = 40$$

$$1,800 + 40 = 1,840$$

$$630 + 14 = 644$$

$$1,840 + 644 = 2,484$$

7

$$\frac{7}{} \times \frac{90}{} = 630$$

$$\frac{7}{} \times \frac{2}{} = 14$$

### Missing Steps Cards

$$89 \times 41 = 3,649$$

$$\downarrow \quad \downarrow$$

$$90 \times 40 = 3,600$$

80

9

40

$$40 \times 80 = 3,200$$

$$40 \times 9 = 360$$

$$3,200 + 360 = 3,560$$

$$80 + 9 = 89$$

$$3,560 + 89 = 3,649$$

1

$$1 \times 80 = 80$$

$$1 \times 9 = 9$$

### Missing Steps Cards

### Missing Steps Cards

# Missing Steps Cards (cont.)

$$53 \times 78 = 4,134$$

$$50 \times 80 = 4,000$$

$50 \times 70 = \underline{\quad}$	$3 \times 70 = \underline{\quad}$
$8 \times 50 = \underline{\quad}$	$3 \times 7 = \underline{\quad}$

$$3,500 + 210 = 3,710$$

$$400 + 24 = 424$$

$$3,710 + 424 = 4,134$$

$$25 \times 62 = 1,550$$

20	5
$60 \times 20 = 1,200$	$60 \times 5 = 300$
60	
2	$2 \times 20 = 40$
	$2 \times 5 = 10$

$$1,200 + 300 = 1,500$$

$$40 + 10 = 50$$

$$1,500 + 50 = 1,550$$

## Missing Steps Cards

$$39 \times 46 = \underline{\quad}$$

$$40 \times 50 = 2,000$$

30	9
$40 \times 30 = 1,200$	$40 \times 9 = 360$
40	
6	$6 \times 30 = 180$
	$6 \times 9 = 54$

$$1,200 + 360 = \underline{\quad}$$

$$180 + 54 = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

## Missing Steps Cards

$$82 \times 17 = 1,394$$

$$80 \times 20 = 1,600$$

80	2
$\underline{\quad} \times \underline{\quad} = \underline{\quad}$	$\underline{\quad} \times \underline{\quad} = \underline{\quad}$
10	
7	$\underline{\quad} \times \underline{\quad} = \underline{\quad}$
	$\underline{\quad} \times \underline{\quad} = \underline{\quad}$

$$800 + 20 = 820$$

$$560 + 14 = 574$$

$$820 + 574 = 1,394$$

## Missing Steps Cards

## Missing Steps Cards

## Missing Steps Cards Key

$$25 \times 62 = 1,550$$



$$\begin{array}{r} 30 \\ \times 60 \\ \hline 1,800 \end{array}$$

$$53 \times 78 = 4,134$$



$$\begin{array}{r} 50 \\ \times 80 \\ \hline 4,000 \end{array}$$

20                      5

$60 \times 20 = 1,200$	$60 \times 5 = 300$
$2 \times 20 = 40$	$2 \times 5 = 10$

$$1,200 + 300 = 1,500$$

$$40 + 10 = 50$$

$$1,500 + 50 = 1,550$$

50                      3

$50 \times 70 = \underline{3,500}$	$3 \times 70 = \underline{210}$
$8 \times 50 = \underline{400}$	$3 \times 7 = \underline{24}$

$$3,500 + 210 = 3,710$$

$$400 + 24 = 424$$

$$3,710 + 424 = 4,134$$

2

### Missing Steps Cards

$$82 \times 17 = 1,394$$



$$80 \times 20 = 1,600$$

### Missing Steps Cards

$$39 \times 46 = \underline{1,794}$$



$$40 \times 50 = 2,000$$

80                      2

$10 \times 80 = 800$	$10 \times 2 = 200$
$7 \times 80 = 560$	$7 \times 2 = 14$

$$800 + 20 = 820$$

$$560 + 14 = 574$$

$$820 + 574 = 1,394$$

30                      9

$40 \times 30 = 1,200$	$40 \times 9 = 360$
$6 \times 30 = 180$	$6 \times 9 = 54$

$$1,200 + 360 = \underline{1,560}$$

$$180 + 54 = \underline{234}$$

$$\underline{1,560} + \underline{234} = \underline{1,794}$$

### Missing Steps Cards

### Missing Steps Cards

# Missing Steps Cards (cont.)

$$47 \times 13 = \underline{\quad}$$



$$50 \times 10 = 500$$

40	7
10	3
$10 \times 40 = 400$	$10 \times 7 = 70$
$3 \times 40 = 120$	$3 \times 7 = 21$

$$400 + 70 = \underline{\quad}$$

$$120 + 21 = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$75 \times 93 = 6,975$$



$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

90	5
3	3
$90 \times 70 = 6,300$	$90 \times 5 = 450$
$3 \times 70 = 210$	$3 \times 5 = 15$

$$6,300 + 450 = 6,750$$

$$210 + 15 = 225$$

$$6,750 + 225 = 6,975$$

## Missing Steps Cards

$$66 \times 37 = 2,442$$



$$70 \times 40 = 2,800$$

60	6
30	7
$\underline{\quad} \times \underline{\quad} = \underline{\quad}$	$\underline{\quad} \times \underline{\quad} = \underline{\quad}$
$\underline{\quad} \times \underline{\quad} = \underline{\quad}$	$\underline{\quad} \times \underline{\quad} = \underline{\quad}$

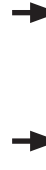
$$1,800 + 180 = 1,980$$

$$420 + 42 = 462$$

$$1,980 + 462 = 2,442$$

## Missing Steps Cards

$$32 \times 54 = 1,728$$



$$30 \times 50 = 1,500$$

30	2
50	4
$20 \times 30 = 1,500$	$50 \times 2 = 100$
$4 \times 30 = 120$	$4 \times 2 = 8$

$$\underline{\quad} + \underline{\quad} = 1,600$$

$$\underline{\quad} + \underline{\quad} = 128$$

$$\underline{\quad} + \underline{\quad} = 1,728$$

## Missing Steps Cards Key

$$75 \times 93 = 6,975$$

$$\downarrow \quad \downarrow$$

$$\underline{80} \times \underline{90} = \underline{7,200}$$

$$47 \times 13 = \underline{611}$$

$$\downarrow \quad \downarrow$$

$$50 \times 10 = 500$$

90

70	5
$90 \times 70 = 6,300$	$90 \times 5 = 450$
$3 \times 70 = 210$	$3 \times 5 = 15$

$$6,300 + 450 = 6,750$$

$$210 + 15 = 225$$

$$6,750 + 225 = 6,975$$

10

40	7
$10 \times 40 = 400$	$10 \times 7 = 70$
$3 \times 40 = 120$	$3 \times 7 = 21$

$$400 + 70 = \underline{470}$$

$$120 + 21 = \underline{141}$$

$$\underline{470} + \underline{141} = \underline{611}$$

3

### Missing Steps Cards

$$32 \times 54 = 1,728$$

$$\downarrow \quad \downarrow$$

$$30 \times 50 = 1,500$$

### Missing Steps Cards

$$66 \times 37 = 2,442$$

$$\downarrow \quad \downarrow$$

$$70 \times 40 = 2,800$$

50

30	2
$20 \times 30 = 1,500$	$50 \times 2 = 100$
$4 \times 30 = 120$	$4 \times 2 = 8$

$$\underline{1,500} + \underline{100} = 1,600$$

$$\underline{120} + \underline{8} = 128$$

$$\underline{1,600} + \underline{128} = 1,728$$

30

60	6
$30 \times 60 = 1,800$	$50 \times 2 = 100$
$4 \times 30 = 120$	$4 \times 2 = 8$

$$1,800 + 180 = 1,980$$

$$420 + 42 = 462$$

$$1,980 + 462 = 2,442$$

4

### Missing Steps Cards

### Missing Steps Cards