Math with a Deck of Cards!

Created by: Jen Ross

The Teacher's Cauldron

No-prep math centers!

Note to Teacher

All of these center activities can be done with a deck of cards. I usually take out the J, Q, and K. I use the A as a one. I have acquired an entire class set of cards over the years, so each child could actually work independently if I wanted them to. You can find them at the dollar-type stores. I have also gotten them from anywhere that has a "casino-type" place. They have to trade out their cards every so often, so they are sometimes willing to donate to teachers. Mine were donated by the cruise ships in our area. If you don't have a place to donate decks of cards, I made a set of cards you can copy off. Copying onto different color paper would help to keep the decks organized!

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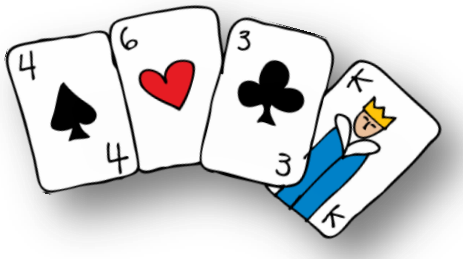

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Number cards

Print these cards if you do not have a deck of cards for the activities. To help keep the centers organized, copy the cards on the same color cardstock as the direction pages for the activities.

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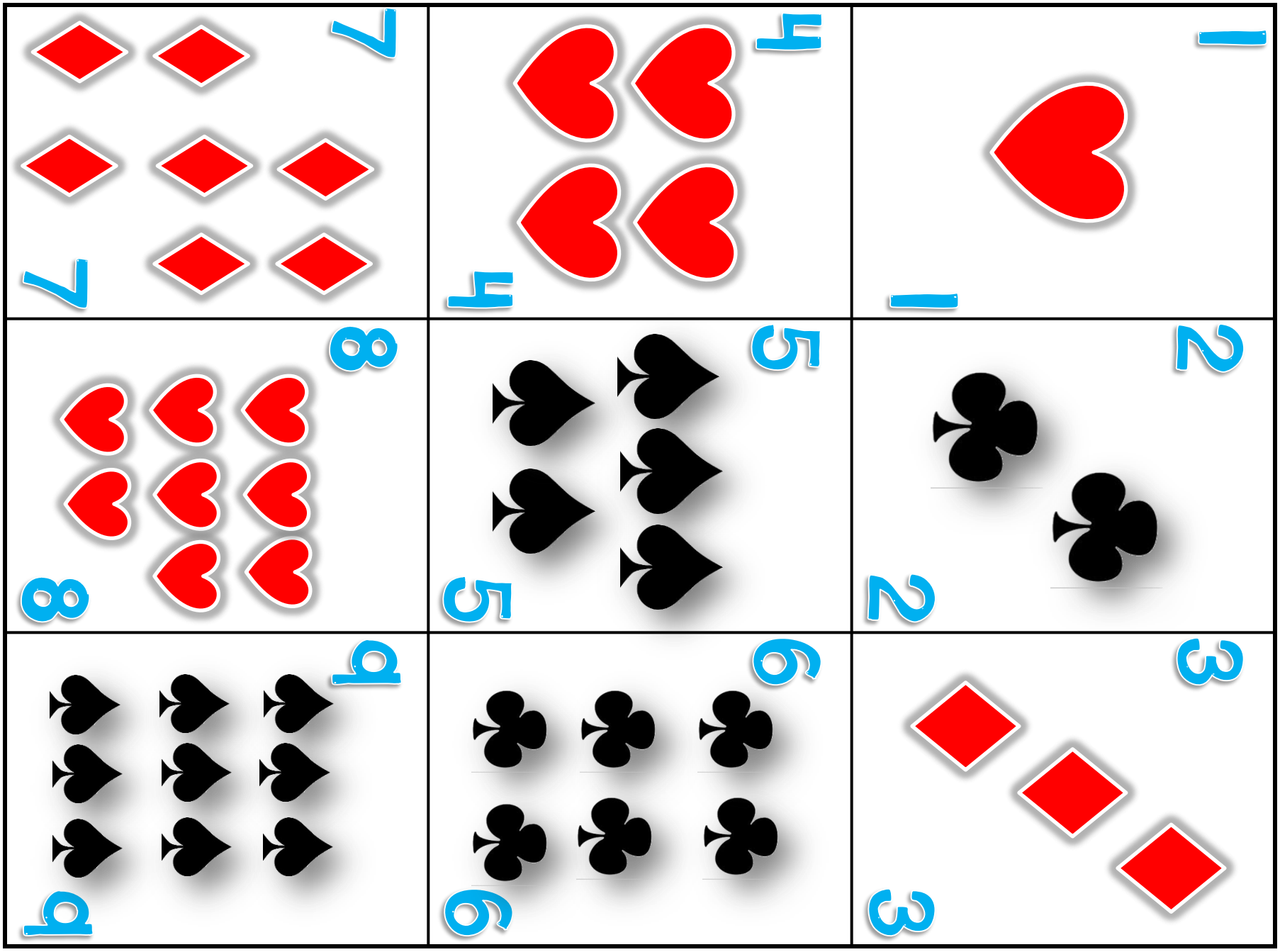

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Reference pages

Print up the number cards and number words page for the centers. Print as many as you like for each activity. Not every activity will need one.

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100s chart

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

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100s Chart

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

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120 Chart

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
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120

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120 Chart

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
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120

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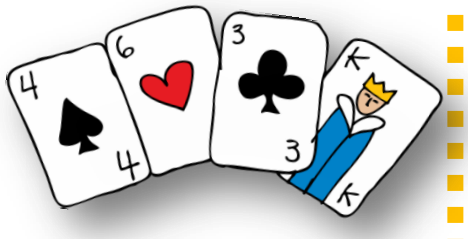
Number words



1	one
2	two
3	three
4	four
5	five
6	six
7	seven
8	eight
9	nine

10	ten
20	twenty
30	thirty
40	forty
50	fifty
60	sixty
70	seventy
80	eighty
90	ninety

100	one hundred
200	two hundred
300	three hundred
400	four hundred
500	five hundred
600	six hundred
700	seven hundred
800	eight hundred
900	nine hundred

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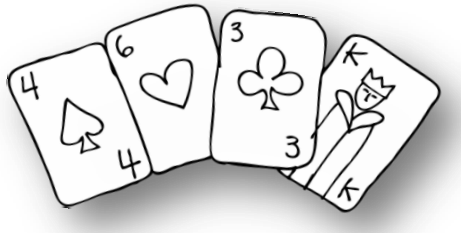
Number words



1	one
2	two
3	three
4	four
5	five
6	six
7	seven
8	eight
9	nine

10	ten
20	twenty
30	thirty
40	forty
50	fifty
60	sixty
70	seventy
80	eighty
90	ninety

100	one hundred
200	two hundred
300	three hundred
400	four hundred
500	five hundred
600	six hundred
700	seven hundred
800	eight hundred
900	nine hundred

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Make the Number!

Flip over the cards. Write them in the "number" column. Arrange the cards to make the greatest number. Then rearrange the cards to make the least number.

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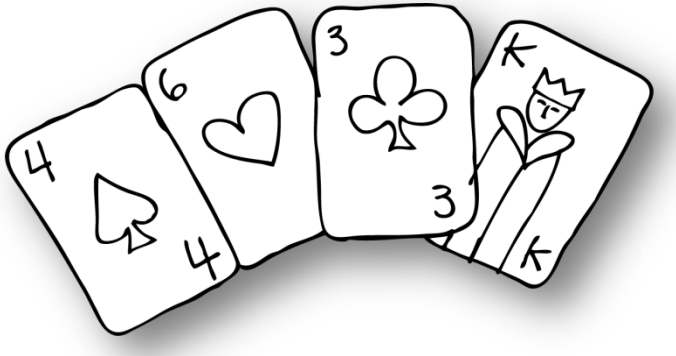
Make the Number!



Flip over the cards. Write them in the "number" column. Arrange the cards to make the greatest number. Then rearrange the cards to make the least number.

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Name:_____

Flip over two cards. Write them in the first column. Arrange the cards to make the greatest number. Then rearrange the cards to make the least number.

cards you flipped	greatest number	least number
A 8	81	18

Analyze Your Numbers!

What was the greatest number you made?

What was the least number you made?

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Name:_____

Flip over three cards. Write them in the first column. Arrange the cards to make the greatest number. Then rearrange the cards to make the least number.

cards you flipped	greatest number	least number
A 8 3	831	138

Analyze Your Numbers!

What was the greatest number you made?

What was the least number you made?

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Name:_____

Flip over four cards. Write them in the "first column. Arrange the cards to make the greatest number. Then rearrange the cards to make the least number.

cards you flipped	greatest number	least number
A 5 3 8	8,531	1,358

Analyze Your Numbers!

What was the greatest number you made?

What was the least number you made?

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More and Less!

Flip over two cards to make a number. Write them in the middle column. Fill in the rest of the chart for that number.

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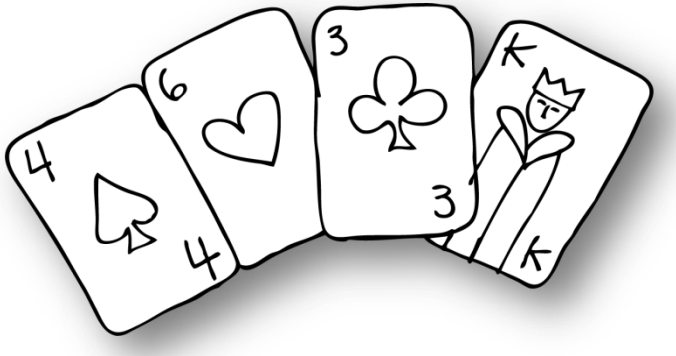
More and Less!



Flip over two cards to make a number. Write them in the middle column. Fill in the rest of the chart for that number.

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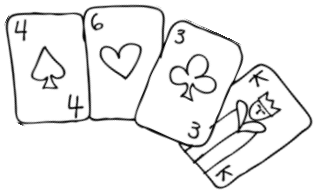
Name:_____

More and Less!



Flip over two cards to make a 2-digit number. Write them in the middle column. Fill in the rest of the chart for that number.

10 less	1 less	NUMBER	1 more	10 more
46	55	56	57	66

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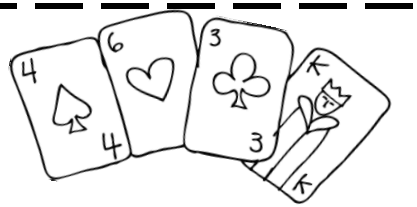
More and Less!



10 less	1 less	NUMBER	1 more	10 more

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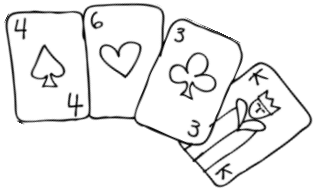
Name:_____

More and Less!



Flip over three cards to make a 3-digit number. Write them in the middle column. Fill in the rest of the chart for that number.

100 less	10 less	1 less	NUMBER	1 more	10 more	100 more
256	346	355	356	357	366	456

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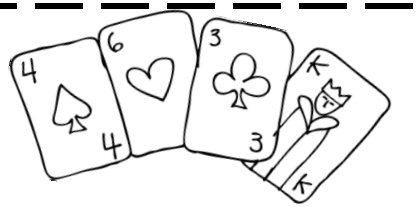
More and Less!



100 less	10 less	1 less	NUMBER	1 more	10 more	100 more

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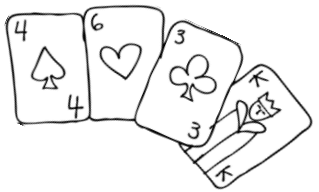
Name:_____

More and Less!



Flip over four cards to make a 4-digit number. Write them in the middle column. Fill in the rest of the chart for that number.

1,000 less	100 less	10 less	1 less	NUMBER	1 more	10 more	100 more	1,000 more
1,356	256	346	355	2,356	2,357	2,366	2,456	3,356

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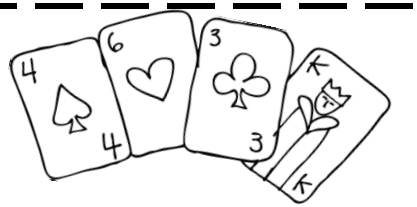
More and Less!



1,000 less	100 less	10 less	1 less	NUMBER	1 more	10 more	100 more	1,000 more

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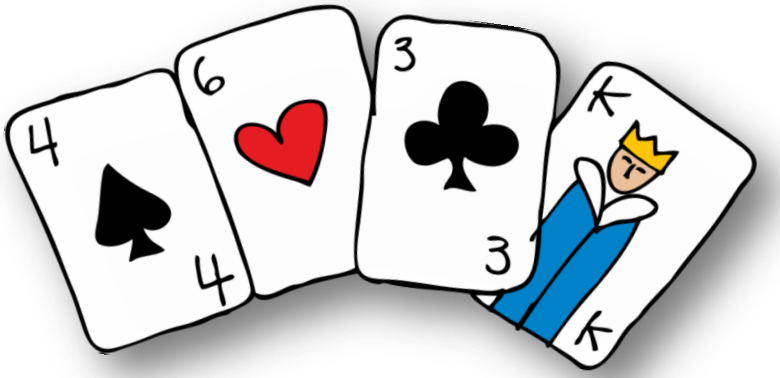
Analyze the Number!



Flip over the cards to make a number. Write them in the "number" column. Fill in the rest of the chart for that number.

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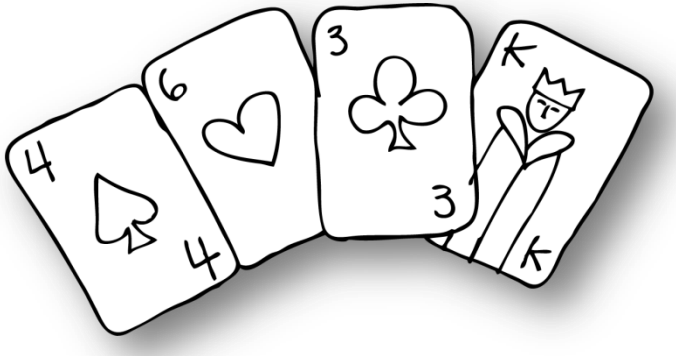
Analyze the Number!



Flip over the cards to make a number. Write them in the "number" column. Fill in the rest of the chart for that number.

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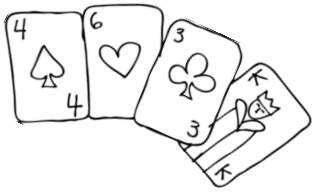
Name:_____

Analyze the Number!



Flip over two cards to make a 2-digit number. Write them in the "number" column. Fill in the rest of the chart for that number.

NUMBER	Number Word	Place Value	Number Value	Expanded Form
46	forty-six	4 tens 6 ones	4 = 40 6 = 6	40 + 6

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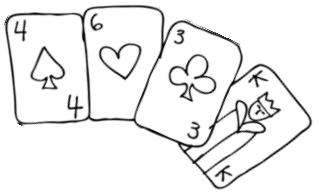
Analyze the Number!



NUMBER	Number Word	Place Value	Number Value	Expanded Form

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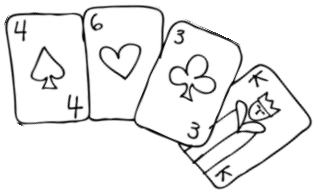
Name:_____

Analyze the Number!



Flip over three cards to make a 3-digit number. Write them in the "number" column. Fill in the rest of the chart for that number.

NUMBER	Number Word	Place Value	Number Value	Expanded Form
346	Three hundred forty-six	3 hundreds 4 tens 6 ones	3 = 300 4 = 40 6 = 6	300+40+6

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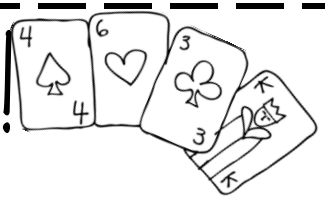
Analyze the Number!



NUMBER	Number Word	Place Value	Number Value	Expanded Form

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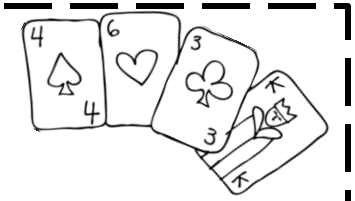
Name:_____

Analyze the Number!



Flip over four cards to make a 4-digit number. Write them in the "number" column. Fill in the rest of the chart for that number.

NUMBER	Number Word	Place Value	Number Value	Expanded Form
2,346	two thousand, three hundred forty-six	2 thousands 3 hundreds 4 tens 6 ones	2=2,000 3 = 300 4 = 40 6 = 6	2,000+ 300+40+6

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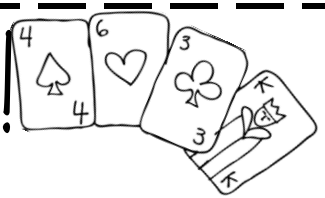
Analyze the Number!



NUMBER	Number Word	Place Value	Number Value	Expanded Form

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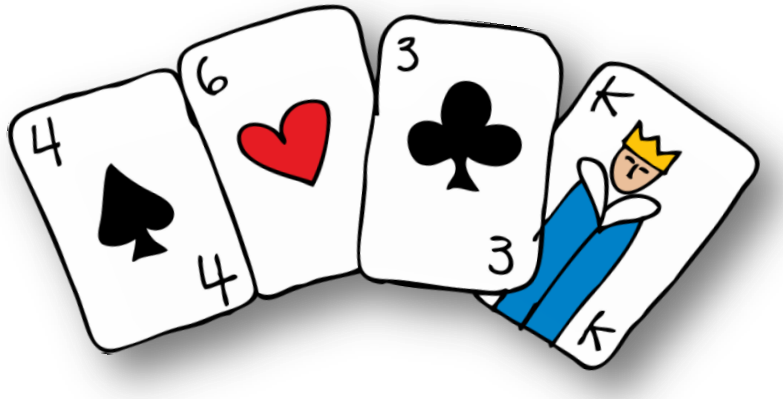
Round It!



Flip over the cards to make a number. Write them in the "number" box. Round the number.

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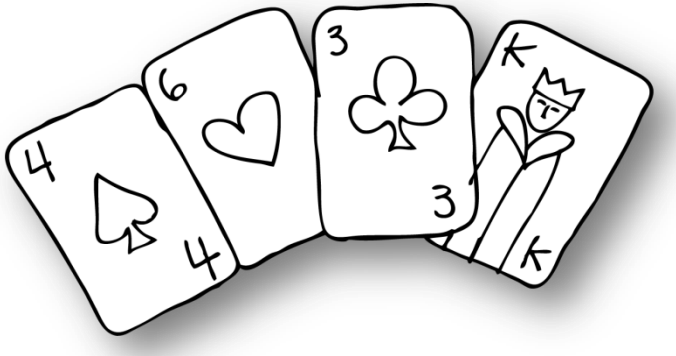
Round It!



Flip over the cards to make a number. Write them in the "number" box. Round the number.

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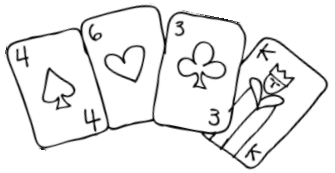
Name:_____

Round It!



Flip over two cards to make a 2-digit number. Write them in the "number" box.
Round it to the nearest ten.

number	round it	number	round it	number	round it
46	50				
number	round it	number	round it	number	round it
number	round it	number	round it	number	round it

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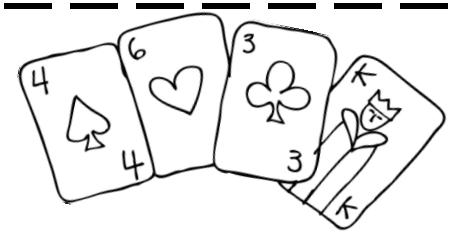
Round It!



number → round it	number → round it	number → round it
number → round it	number → round it	number → round it
number → round it	number → round it	number → round it

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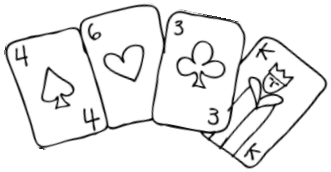
Name:_____

Round It!



Flip over three cards to make a 3-digit number. Write them in the "number" box.
Round it to the nearest **hundred**.

number	round it	number	round it	number	round it
436 →	400	→		→	
number	round it	number	round it	number	round it
→		→		→	
number	round it	number	round it	number	round it
→		→		→	

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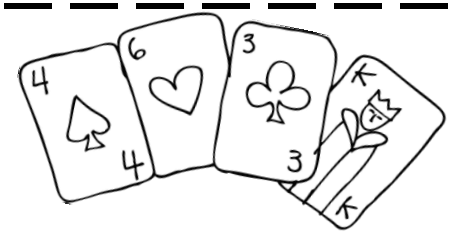
Round It!



number	round it	number	round it	number	round it
number	round it	number	round it	number	round it
number	round it	number	round it	number	round it

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Name:_____

Round It!

Flip over three cards to make a 3-digit number. Write them in the "number" box. Round it to the nearest <u>ten</u>.

number 436 → round it 440	number → round it	number → round it
number → round it	number → round it	number → round it
number → round it	number → round it	number → round it

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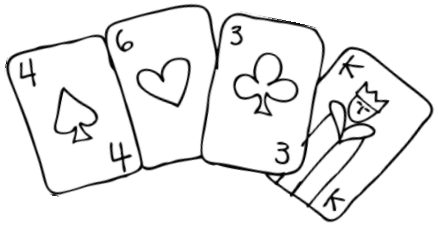
Round It!



number → round it	number → round it	number → round it
number → round it	number → round it	number → round it
number → round it	number → round it	number → round it

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compare the Numbers!

Each player flips over the cards to make a number. Write it in their box. Compare the numbers by putting a greater than >, less than <, or equal to = symbol in the circle.

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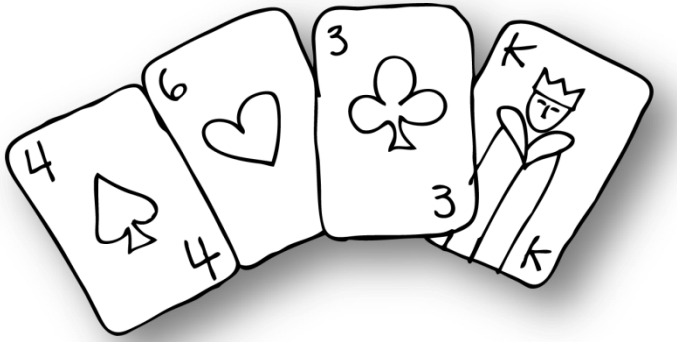
compare the Numbers!



Each player flips over the cards to make a number. Write it in their box. Compare the numbers by putting a greater than >, less than <, or equal to = symbol in the circle.

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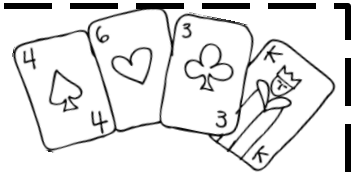
Name:_____

Compare the Numbers!



Each player flips over two cards to make a 2-digit number. Write it in your box. Compare the numbers by putting a greater than >, less than <, or equal to = symbol in the circle.

Player 1 **43** (>) Player 2 **34**	Player 1 ( ) Player 2
Player 1 ( ) Player 2	Player 1 ( ) Player 2
Player 1 ( ) Player 2	Player 1 ( ) Player 2

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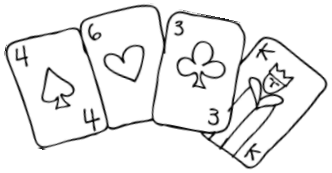
Compare the Numbers!



Player 1 ○ Player 2	Player 1 ○ Player 2
Player 1 ○ Player 2	Player 1 ○ Player 2
Player 1 ○ Player 2	Player 1 ○ Player 2

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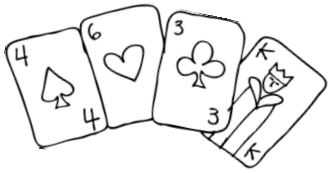
Name:_____

Compare the Numbers!



Each player flips over three cards to make a 3-digit number. Write it in your box. Compare the numbers by putting a greater than >, less than <, or equal to = symbol in the circle.

Player 1: 413 (>) Player 2: 324	Player 1 ( ) Player 2
Player 1 ( ) Player 2	Player 1 ( ) Player 2
Player 1 ( ) Player 2	Player 1 ( ) Player 2

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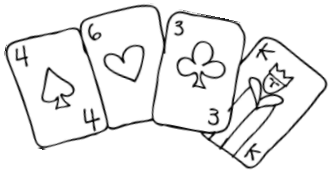
Compare the Numbers!



Player 1 ○ Player 2	Player 1 ○ Player 2
Player 1 ○ Player 2	Player 1 ○ Player 2
Player 1 ○ Player 2	Player 1 ○ Player 2

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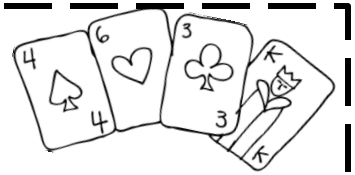
Name:_____

Compare the Numbers!



Each player flips over four cards to make a 4-digit number. Write it in your box. Compare the numbers by putting a greater than >, less than <, or equal to = symbol in the circle.

Player 1: 4,213 (>) Player 2: 3,344	Player 1 ( ) Player 2
Player 1 ( ) Player 2	Player 1 ( ) Player 2
Player 1 ( ) Player 2	Player 1 ( ) Player 2

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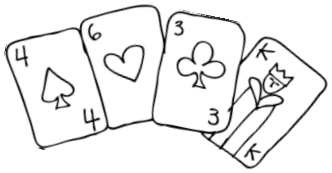
Compare the Numbers!



Player 1 ◯ Player 2	Player 1 ◯ Player 2
Player 1 ◯ Player 2	Player 1 ◯ Player 2
Player 1 ◯ Player 2	Player 1 ◯ Player 2

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Add the Numbers!

Flip over the cards to make a number. Flip over another set of cards to make another number. Add the two numbers together.

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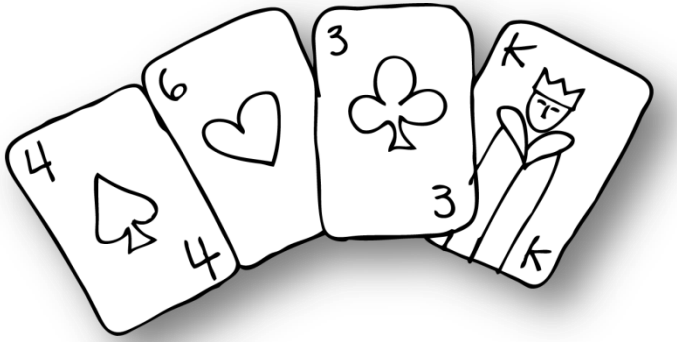
Add the Numbers!



Flip over the cards to make a number. Flip over another set of cards to make another number. Add the two numbers together.

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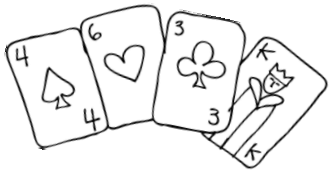
Name:_____

Add the Numbers!



Flip over two cards to make a number. Flip over another two cards to make another number. Add the two numbers together.

$$\begin{array}{r} 27 \\ +\ 52 \\ \hline 79 \end{array}$$

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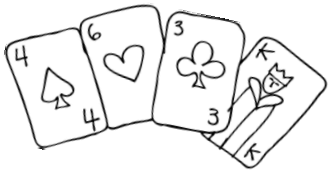
Name:_____

Add the Numbers!



Flip over three cards to make a number. Flip over another three cards to make another number. Add the two numbers together.

$\begin{array}{r} 227 \\ +\ 542 \\ \hline 769 \end{array}$			

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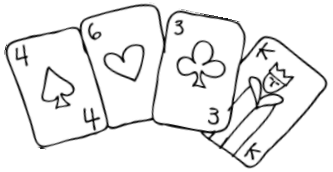
Name:_____

Add the Numbers!



Flip over four cards to make a number. Flip over another four cards to make another number. Add the two numbers together.

$$\begin{array}{r} 2{,}327 \\ +\ 5{,}242 \\ \hline 7{,}569 \end{array}$$

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Subtract the Numbers!

Flip over the cards to make a number. Flip over another set cards to make another number. Subtract the smaller number from the larger number.

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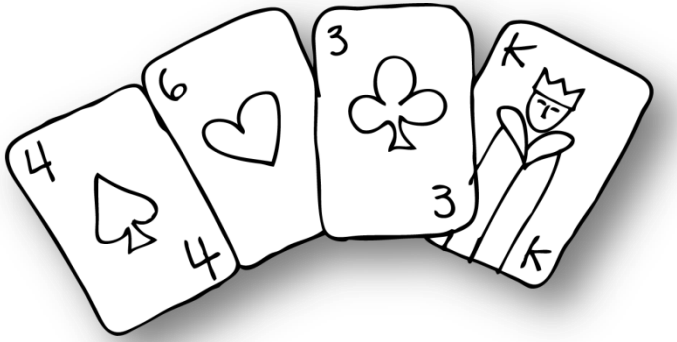
Subtract the Numbers!



Flip over the cards to make a number. Flip over another set cards to make another number. Subtract the smaller number from the larger number.

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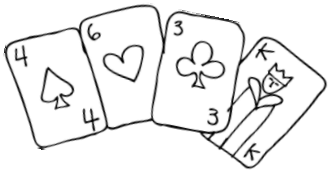
Name:_____

Subtract the Numbers!



Flip over two cards to make a number. Flip over another set of two cards to make another number. Subtract the smaller number from the larger number.

57 - 32 25			

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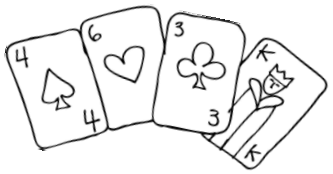
Name:_____

Subtract the Numbers!



Flip over three cards to make a number. Flip over another set of three cards to make another number. Subtract the smaller number from the larger number.

527 - 312 215			

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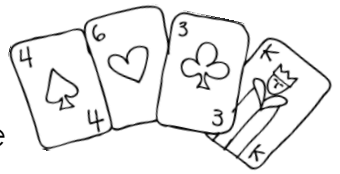
Name:_____

Subtract the Numbers!



Flip over four cards to make a number. Flip over another set of four cards to make another number. Subtract the smaller number from the larger number.

$$\begin{array}{r} 5,727 \\ -\ 3,412 \\ \hline 2,315 \end{array}$$

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Multiply the Numbers!

Flip over the cards to make a number. Flip over another set of cards to make another number. Multiply the two numbers together.

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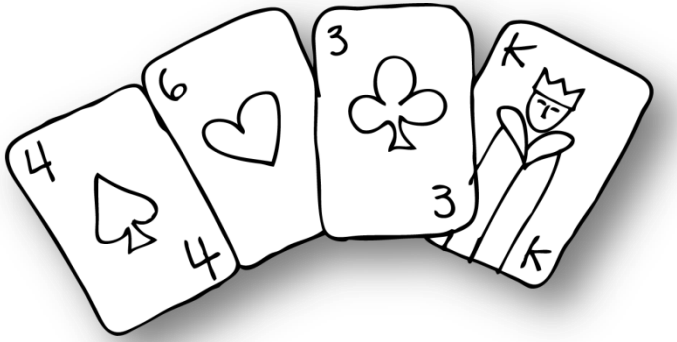
Multiply the Numbers!



Flip over the cards to make a number. Flip over another set of cards to make another number. Multiply the two numbers together.

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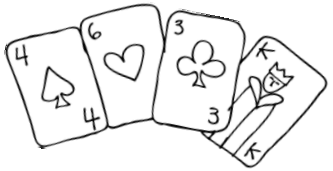
Name:_____

Multiply the Numbers!



Flip over two cards. Multiply the two numbers together.

7 x 2 14			

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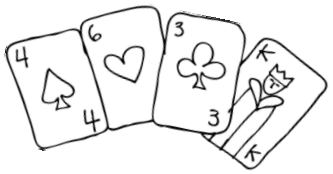
Name:_____

Multiply the Numbers!



Flip over two cards to make a 2-digit number. Flip over one more card. Multiply the two numbers together.

37 × 2 = 74			

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Name:_____

Multiply the Numbers!

Flip over two cards to make a 2-digit number. Flip over another two cards to make another 2-digit number. Multiply the two numbers together.

37 × 42 = 74 + 1480 = 2,554			

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Adding 3 Numbers

Flip over cards. Add the three numbers together!

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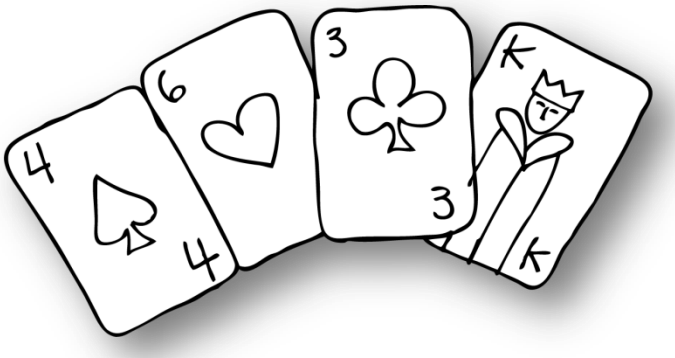
Adding 3 Numbers



Flip over cards. Add the three numbers together!

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Name:_____

Adding Three Numbers!

Flip over three cards. Add the numbers together.

9 5 + 3 17			

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Name:_____

Adding Three Numbers!

Flip over two cards to make a 2-digit number. Flip over another set two cards to make a 2-digit number. Flip over a 3rd set of two cards to make a 2-digit number Add the numbers together.

13 52 + 43 108			

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Name:_____

Adding Three Numbers!

Flip over three cards to make a 3-digit number. Flip over another set three cards to make another 3-digit number. Flip over a 3rd set of three cards to make another 3-digit number Add the numbers together.

143 512 + 443 1,098			

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Repeated Addition

Flip over a card to make a number. Flip over another card. The 2nd card tells you how many times to add the first card together! Solve the problem.

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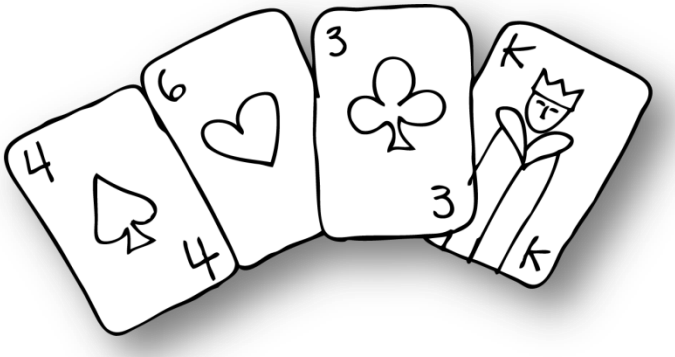
Repeated Addition



Flip over a card to make a number. Flip over another card. The 2nd card tells you how many times to add the first card together! Solve the problem.

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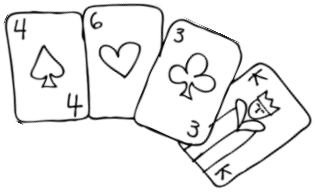
Name:_____

Repeated Addition



Flip over one card. Write it in the "number" column. Flip over another card. Write it in the "how many times" column. Write the math problem and solve it!

NUMBER	Add it how many times	Math Problem
8	3	8 + 8 + 8 = 24

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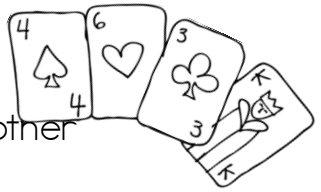
Name:_____

Repeated Addition



Flip over two cards to make a number. Write it in the "number" column. Flip over another card. Write it in the "how many times" column. Write the math problem and solve it!

NUMBER	Add it how many times	Math Problem
18	3	18 + 18 + 18 = 54

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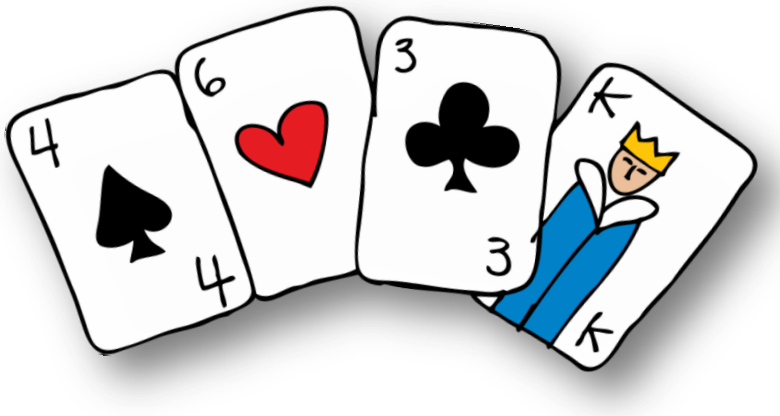
Multiplication Arrays



Flip over two cards. Color in the multiplication array to match the two numbers. Solve the math problem.

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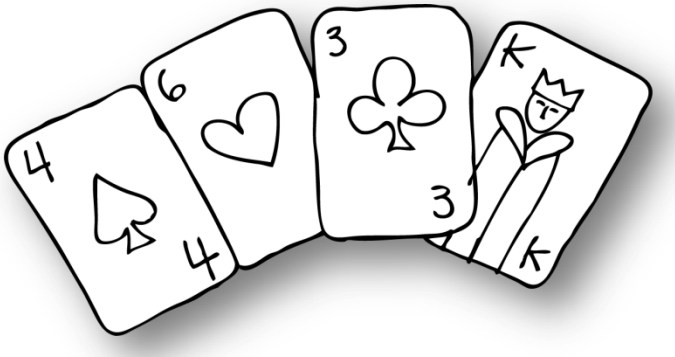
Multiplication Arrays



Flip over two cards. Color in the multiplication array to match the two numbers. Solve the math problem.

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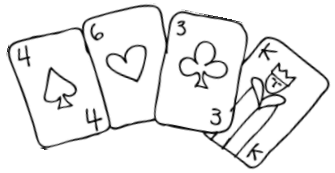
Name:_____

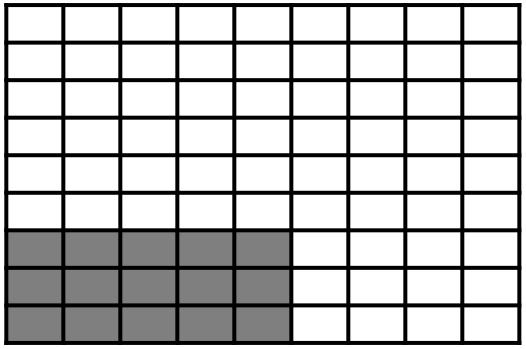
Multiplication Arrays



Flip over two cards. Color in the multiplication array to match the two numbers. Solve the math problem.

Card 1
3

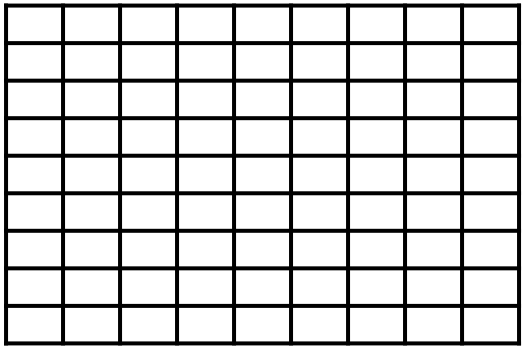
Card 2
5



Math Sentence
3 x 5 = 15

Card 1

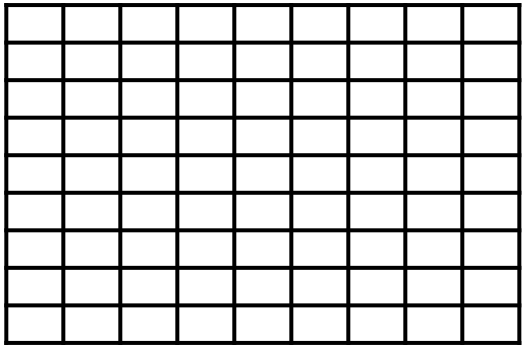
Card 2



Math Sentence

Card 1

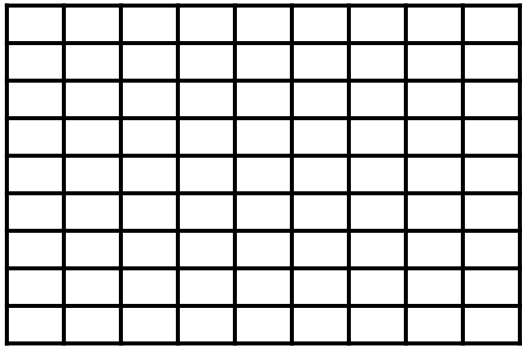
Card 2



Math Sentence

Card 1

Card 2



Math Sentence

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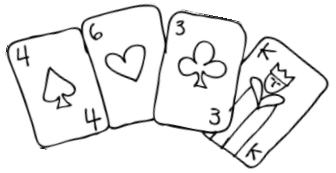
Multiplication Arrays



Card 1

Card 2

Math Sentence

Card 1

Card 2

Math Sentence

Card 1

Card 2

Math Sentence

Card 1

Card 2

Math Sentence

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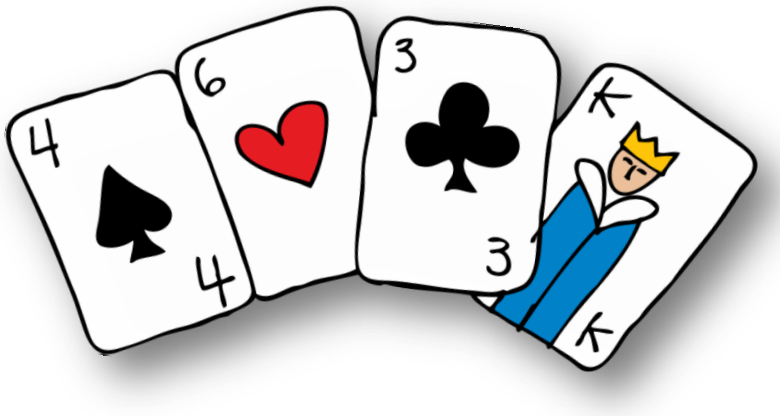
Balancing Math



Flip over two cards. Color in the multiplication array to match the two numbers. Solve the math problem.

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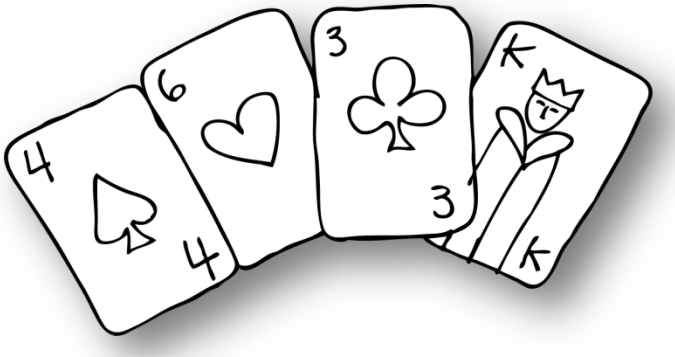
Balancing Math



Flip over two cards. Color in the multiplication array to match the two numbers. Solve the math problem.

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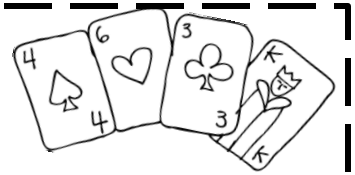
Name:_____

Balancing Math



Flip over three cards. Write them on lines #1, #2, and #3. Figure out the number that needs to be on the 4th line to balance the math sentence.

4 (#1) + A (#2) = 2 (#3) + 3 (??)	_____ (#1) + _____ (#2) = _____ (#3) + _____ (??)
_____ (#1) + _____ (#2) = _____ (#3) + _____ (??)	_____ (#1) + _____ (#2) = _____ (#3) + _____ (??)
_____ (#1) + _____ (#2) = _____ (#3) + _____ (??)	_____ (#1) + _____ (#2) = _____ (#3) + _____ (??)
_____ (#1) + _____ (#2) = _____ (#3) + _____ (??)	_____ (#1) + _____ (#2) = _____ (#3) + _____ (??)

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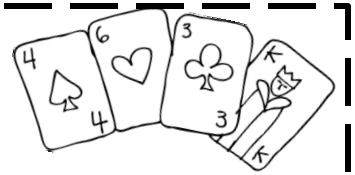
Name:_____

Balancing Math



Flip over three cards. Write them on lines #1, #2, #3 and #4. Figure out the number that needs to be on the 5th line to balance the math sentence.

4 + A + 3 = 2 + (6) #1 #2 #3 #4 ??	___ + ___ + ___ = ___ + ___ #1 #2 #3 #4 ??
___ + ___ + ___ = ___ + ___ #1 #2 #3 #4 ??	___ + ___ + ___ = ___ + ___ #1 #2 #3 #4 ??
___ + ___ + ___ = ___ + ___ #1 #2 #3 #4 ??	___ + ___ + ___ = ___ + ___ #1 #2 #3 #4 ??
___ + ___ + ___ = ___ + ___ #1 #2 #3 #4 ??	___ + ___ + ___ = ___ + ___ #1 #2 #3 #4 ??

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Note to Teacher

This activities in this section do not "require" recording sheets.

MAKING TEN	Making ten, twenty, or thirty – can be played independently or with a partner	85-86
WAR LEVEL A	Number comparisons	87-90
WAR LEVEL B	Adding and subtracting	91-92
WAR LEVEL C	Multiplying and fraction	93-94

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Making Ten!

The goal is to get rid of all your cards by making ten, twenty, or thirty with any set of THREE cards.

Start with three cards. Add them up to see if they equal ten, twenty, or thirty. If they do, put them in the discard pile. If not, keep them. Pick up another card. Try making ten, twenty, or thirty with any of the three cards you have. Each time you can make ten, twenty, or thirty, put those cards in the discard pile. Keep adding one card to your hand.

This game could be played independently or with a partner. If playing with a partner, each player takes turns picking up cards. The one with the least amount of cards is the winner!

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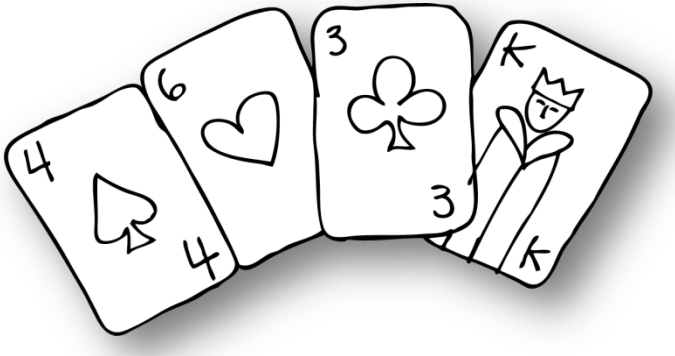
Making Ten!



The goal is to get rid of all your cards by making ten, twenty, or thirty with any set of THREE cards.

Start with three cards. Add them up to see if they equal ten, twenty, or thirty. If they do, put them in the discard pile. If not, keep them. Pick up another card. Try making ten, twenty, or thirty with any of the three cards you have. Each time you can make ten, twenty, or thirty, put those cards in the discard pile. Keep adding one card to your hand.

This game could be played independently or with a partner. If playing with a partner, each player takes turns picking up cards. The one with the least amount of cards is the winner!

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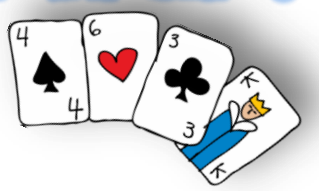
Compare Them War!

One-Digit Numbers



The goal is to get all the cards. Pass out all the cards, each player getting the same amount. Each player flips over a card. Compare the numbers. The player with the bigger number gets to keep both cards. Keep going until one player wins all the cards. If you both flip the same card, flip over another card and the winner takes all four cards!

Compare Them War!

Two-Digit Numbers

The goal is to get all the cards. Pass out all the cards, each player getting the same amount. Each player flips over two cards. Make the biggest number possible. Compare the numbers. The player with the bigger number gets to keep all four cards. Keep going until one player wins all the cards. If you both make the same number, flip over another set of cards and the winner takes all eight cards!

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Compare Them War!

Three-Digit Numbers

The goal is to get all the cards. Pass out all the cards, each player getting the same amount. Each player flips over three cards. Make the biggest number possible. Compare the numbers. The player with the bigger number gets to keep all six cards. Keep going until one player wins all the cards. If you both make the same card, flip over another set of cards and the winner takes all twelve cards!

Compare Them War!

Four-Digit Numbers

The goal is to get all the cards. Pass out all the cards, each player getting the same amount. Each player flips over four cards. Make the biggest number possible. Compare the numbers. The player with the bigger number gets to keep all eight cards. Keep going until one player wins all the cards. If you both make the same number, flip over another set of cards and the winner takes all sixteen cards!

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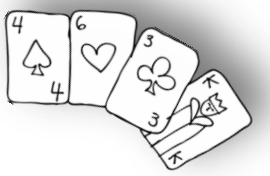
compare them war!

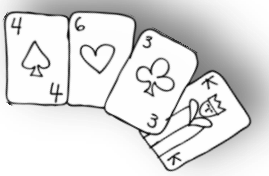
One-Digit Numbers



The goal is to get all the cards. Pass out all the cards, each player getting the same amount. Each player flips over a card. Compare the numbers. The player with the bigger number gets to keep both cards. Keep going until one player wins all the cards. If you both flip the same card, flip over another card and the winner takes all four cards!

compare them war!

Two-Digit Numbers



The goal is to get all the cards. Pass out all the cards, each player getting the same amount. Each player flips over two cards. Make the biggest number possible. Compare the numbers. The player with the bigger number gets to keep all four cards. Keep going until one player wins all the cards. If you both make the same number, flip over another set of cards and the winner takes all eight cards!

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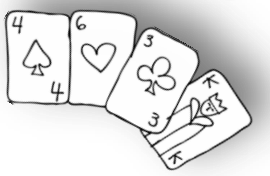
compare them war!

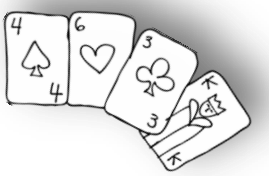
Three-Digit Numbers



The goal is to get all the cards. Pass out all the cards, each player getting the same amount. Each player flips over three cards. Make the biggest number possible. Compare the numbers. The player with the bigger number gets to keep all six cards. Keep going until one player wins all the cards. If you both make the same card, flip over another set of cards and the winner takes all twelve cards!

compare them war!

Four-Digit Numbers



The goal is to get all the cards. Pass out all the cards, each player getting the same amount. Each player flips over four cards. Make the biggest number possible. Compare the numbers. The player with the bigger number gets to keep all eight cards. Keep going until one player wins all the cards. If you both make the same number, flip over another set of cards and the winner takes all sixteen cards!

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Addition war!

One-Digit Numbers

The goal is to get all the cards. Pass out all the cards, each player getting the same amount. Each player flips over two cards. Add them together. Compare the sums. The player with the bigger sum gets to keep all four cards. Keep going until one player wins all the cards. If you both have the same sum, flip over another set of cards and the winner takes all eight cards!

Subtraction war!

One-Digit Numbers

The goal is to get all the cards. Pass out all the cards, each player getting the same amount. Each player flips over two cards. Subtract. Compare the differences. The player with the bigger difference gets to keep all four cards. Keep going until one player wins all the cards. If you both have the same differences, flip over another set of cards and the winner takes all eight cards!

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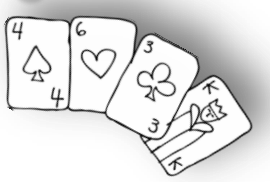
Addition war!

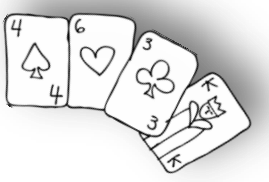
One-Digit Numbers



The goal is to get all the cards. Pass out all the cards, each player getting the same amount. Each player flips over two cards. Add them together. Compare the sums. The player with the bigger sum gets to keep all four cards. Keep going until one player wins all the cards. If you both have the same sum, flip over another set of cards and the winner takes all eight cards!

Subtraction war!

One-Digit Numbers



The goal is to get all the cards. Pass out all the cards, each player getting the same amount. Each player flips over two cards. Subtract. Compare the differences. The player with the bigger difference gets to keep all four cards. Keep going until one player wins all the cards. If you both have the same differences, flip over another set of cards and the winner takes all eight cards!

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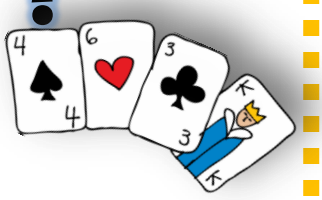
multiplication war!

One-Digit Numbers

The goal is to get all the cards. Pass out all the cards, each player getting the same amount. Each player flips over two cards. Multiply them together. Compare the sums. The player with the bigger product gets to keep all four cards. Keep going until one player wins all the cards. If you both have the same product, flip over another set of cards and the winner takes all eight cards!

Fraction war!



Getting to a whole!

The goal is to get all the cards. Pass out all the cards, each player getting the same amount. Each player flips over two cards. The bigger number is the denominator. The player whose fraction is closest to a whole gets to keep all four cards. Keep going until one player wins all the cards. If you both have the same fraction, flip over another set of cards and the winner takes all eight cards!

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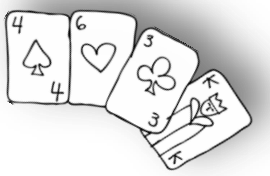
Multiplication war!

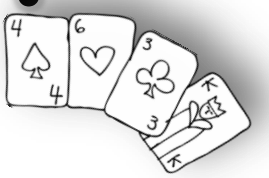
One-Digit Numbers



The goal is to get all the cards. Pass out all the cards, each player getting the same amount. Each player flips over two cards. Multiply them together. Compare the sums. The player with the bigger product gets to keep all four cards. Keep going until one player wins all the cards. If you both have the same product, flip over another set of cards and the winner takes all eight cards!

Fraction war!

One-Digit Numbers



The goal is to get all the cards. Pass out all the cards, each player getting the same amount. Each player flips over two cards. The bigger number is the denominator. The player whose fraction is closest to a whole gets to keep all four cards. Keep going until one player wins all the cards. If you both have the same fraction, flip over another set of cards and the winner takes all eight cards!

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