

# Math Centers

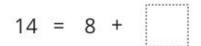


Unit 3

**Adding and Subtracting Within 20** 











**Number Puzzles** 







**How Close?** 





# Shake & Spill, Stages 3-5



Materials:

cup

Two-color counters

Shake & Spill Stage 3 Recording Sheet

Shake & Spill, Cover Stage 4 Recording Sheet



Directions:	Chage 4 and 5 Recenting Steen (C4 and 2)
• Choose	how many counters to put in the cup. A: Close your eyes. B: Shake and spill, Cover up the yellow s with the cup.
· Partner	A: Close your eyes.
	B: Shake and spill. Cover up the yellow
	s with the cup.
	A: Open your eyes and figure out how many
	s are under the cup.
	It: Show how many.
	rtners: Record an equation. oles and start the next round.
• 2witch i	oles and start the next round.
round:	Write an equation to represent the red and yellow counters
1	
2	
3	
4	
is.	
6	
2	

# **Shake & Spill Directions:**

- Decide how many counters to use (up to 10).
- Partner A: Shake and spill.
- Both partners: Determine how many red counters and how many yellow counters there are and write an equation to show the total.
- Switch roles and start the next round.

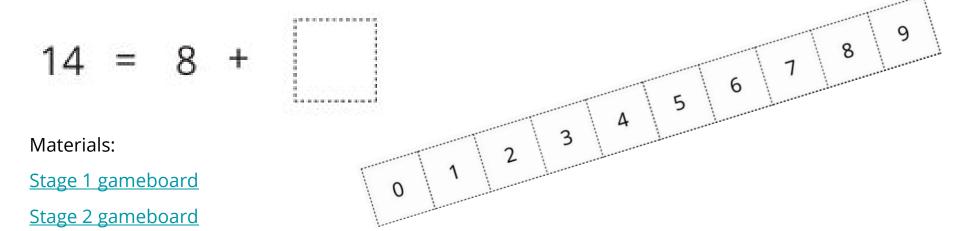
# **Shake & Spill, Cover Directions:**

- Choose how many counters to put in the cup.
- Partner A: Close your eyes.
- Partner B: Shake and spill. Cover up the yellow
- counters with the cup.
- Partner A: Open your eyes and figure out how many
- counters are under the cup.
- Partner B: Show how many.
- Both partners: Record an equation.
- Switch roles and start the next round.





# Number Puzzles, Stage 1 and Stage 2



### Directions:

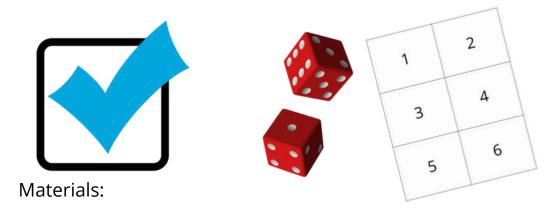
Number puzzles digit cards

- Each group gets a set of digit cards and a game board.
- Place the digit cards so that every equation is true. Use each number card once.
- Complete a puzzle before moving to the next one.
- Finish as many as you can.





# Check It Off, Stage 1: Add, Stage 2: Subtract



Number cards 0-10 or Dot cubes (6 is wild card)

Stage 1 (addition) gameboard

Stage 2 (subtraction) gameboard

	✓ Found it!	expression
0		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

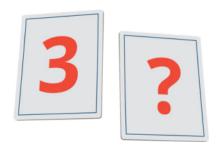
### **Directions:**

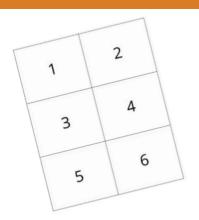
- Addition Take turns choosing two cards, finding the **sum**, and writing an addition expression. You may have more than one expression for each sum.
- Subtraction Take turns choosing two cards, finding the difference, and writing a subtraction expression. You may have more than one expression for each difference.





# Find the Pair, Stage 2: Make 10





### Materials:

Number cards 0-10

Two-color counters, 10-frames

Stage 2 recording sheet

# Directions:

- Each person gets 5 cards to start.
- Ask your partner for a number that can be added to one of your cards to make 10.
- If they have the card, put the pair of cards down and fill in the equation.
- If they don't have that card, pick a card from a pile.
- The partner with the most pairs at the end of the game wins.





# Compare, Stage 1: within 10, Stage 2: within 20



Stage 1 addition cards
Stage 1 subtraction cards
Stage 2 addition cards
Stage 2 subtraction cards

#### 1 + 102 + 910 + 10 + 79 + 28-6 20 - 420 - 133 + 8 $\frac{4+7}{7+4}$ 0 + 38 + 35 + 08-4 20 - 188 - 320 - 12 $5+6 \\ 6+5$ 2 + 1010 + 210 + 08 - 220 - 158 - 120 - 93 + 91 + 19 + 38+ 8-7 8-8 19 - 719 - 11

# Stage 1 Directions:

Illustrative

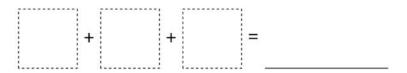
- Mix the cards up and give half to each player.
- Each person flips over a card with an expression.
- The person who has the card with the greater value takes both cards.
- If the cards have the same value, flip over two new cards.

# Stage 2 Directions:

- Mix the stage 2 addition and subtraction cards up and give half to each player.
- Each person flips over a card with an expression.
- The person who has the card with the greater value takes both cards.
- If the cards have the same value, flip over two new cards.



# How Close? Stage 1: Add to 20, Stage 2: Subtract from 20



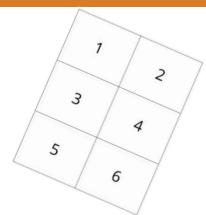
### Materials:

How Close? Stage 1 Recording Sheet

How Close? Stage 2 Recording Sheet

Connecting Cubes or Counters

<u>Double 10-Frames</u>, <u>Number Cards 0-10</u>



# **Stage 1: Add to 20 - Directions:**

- Each partner:
  - Take 7 cards.
  - Choose 3 numbers.
  - Write an equation to show the sum of the 3 numbers.
  - Compare sums with your partner, whoever is closer to 20 wins a point.
- Take 3 new cards and start the next round.

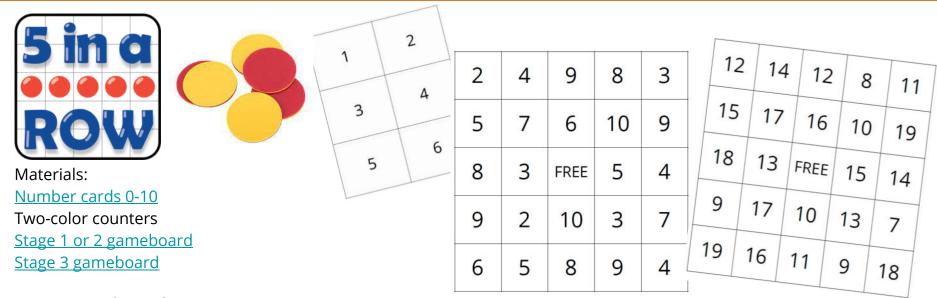
# **Stage 2: Directions:**

- Each partner:
  - Take 4 cards.
  - Choose 2 or 3 numbers to subtract from 20 in order to get as close as possible to zero.
  - Complete the equation on your recording sheet.
  - Compare equations with your partner, whoever is closer to 0 wins a point.
- Take new cards to start the next round with 4 cards.









# **Stage 1 Directions:**

 Add 1 or 2 - Take turns choosing a number card and choose to add 1 or 2 to the number on your card, then place your counter on the **sum**.

# **Stage 2 Directions:**

 Subtract 1 or 2 - Take turns choosing a number card and choose to subtract 1 or 2 from the number on your card, then place your counter on the difference.

# **Stage 3 Directions:**

• Add 7, 8 or 9 - Take turns choosing a number card and choose to add 7, 8, or 9 to the number on your card, then place your counter on the sum.

