

Experience A Number Bond, For All It's Worth

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Number bonds:

- understand part-whole relationships
- compose and decompose numbers
- see inverse relationships
- develop algebraic thinking
- master addition/subtraction bonds (facts)
- build relational understanding for mental math skills

Ways to introduce number bonds:

- beans
- teddy bear counters
- two-sided counters
- use 3 paper plates to form part/part/whole
- use Zoo Pal plates—ears represent the two "parts"; body or head represent the "whole"

Classroom activities that include number bonds:

- math talk lessons
- creating addition and subtraction stories
- number bracelets
- creating "story of" anchor charts

Games for purposeful practice:

- Facts On the Brain
- Tic Tac Tens
- Knock Off the Clock

Math journal activities:

- Given a picture, have students fill in a sentence frame to support the number bond:
 - There are a total of ____ frogs. ____ of the frogs are spotted and ____ of the frogs are not spotted. There are ____ frogs.
 - There are a total of ____ frogs. ____ of the frogs are _____ and ____ of the frogs are _____. There are ____ frogs.
- Then have students write the 4 facts that support the bond shown in the picture:
 - $3 + 2 = 5$
 - $2 + 3 = 5$
 - $5 - 2 = 3$
 - $5 - 3 = 2$

Using number bonds to teach compensation:

1. $8 + 5$

2. $9 + 6$

3. $26 + 8$

4. $38 + 7$

5. $197 + 6$

6. $298 + 4$

7. $2394 + 29$

8. $3495 + 38$

Using number bonds to teach converting units of measure:

1. $14 \text{ oz} + 5 \text{ oz}$

2. $15 \text{ oz} + 8 \text{ oz}$

3. $11 \text{ in.} + 7 \text{ in.}$

4. $9 \text{ in.} + 6 \text{ in.}$

5. $50 \text{ min.} + 25 \text{ min.}$

6. $45 \text{ min.} + 30 \text{ min.}$

7. $3 \text{ qt.} + 2 \text{ qt.}$

8. $3 \text{ qt.} + 3 \text{ qt.}$

Using number bonds to teach addition of fractions:

1. $\frac{5}{7} + \frac{6}{7}$

2. $\frac{4}{9} + \frac{7}{9}$

3. $\frac{4}{5} + \frac{3}{5}$

4. $\frac{5}{8} + \frac{7}{8}$