

Addition Facts: Adding 8

Objectives

The “Adding +8” song reinforces the unique Math-U-See® concept that eight wants to be ten in order to help students master adding 8 to any single-digit number.

Student will complete the activities in order to use the strategy eight wants to be ten in order to help students master adding 8 to any single digit number.

Note that this song also includes the concept of the “one-ties” and their nicknames discussed in Math-U-See’s *Alpha* Lesson 1. The “one-ties” were created in order to assist children in understanding how to count from 1-20 using place value concepts. Onety-one, onety-two, onety-three, etc. to substitute for the traditional “teen” counting.

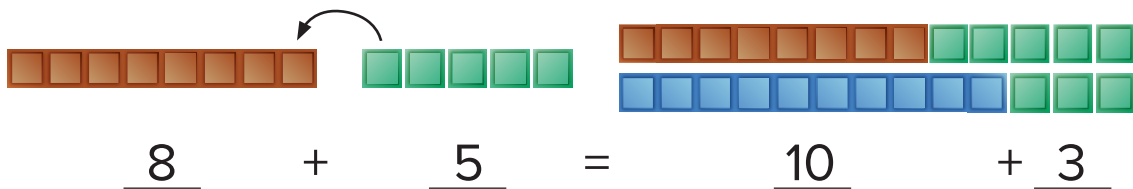
Equivalent Equations: Adding Eight

Materials

- *Addition Facts Sheet* (see page 4)
- Integer Blocks
- Paper and pencil

Set Up: Have your student circle or highlight all the +8 facts on the *Addition Facts Sheet*.

Strategy: This activity is based on the strategy found in *Alpha* Lesson 10 that 8 always “wants” to be 10. Eight can be changed (🎵 *would like to be 10* 🎵) by subtracting two from the second addend (🎵 *is taking two* 🎵) in order to simplify the addition fact.



Addition Facts: Adding 8

Equivalent Equations: Adding Eight (Cont.)

Directions:

1. Your student selects a +8 equation from the *Addition Facts Sheet* and completes the Build, Write, Say process. For example,
 - Build: If the student chooses $8 + 3$, then the 8-block and 3 unit blocks would be selected to model the equation. Have the student place the blocks next to each other horizontally as in Figure 2.



- Write: Then the student would write " $8 + 3 = \underline{\quad}$ " on the dry erase board.
 - Say: Ask the student to say the problem: "Eight plus three is the same as..." (and pause)
2. From this cue, your student should repeat the Build, Write, Say process for the equivalent +10 equation, placing it directly below the 8-block and 3 unit blocks "smooshed" together.
 - Build: The student selects the 10-block and looks to see what block will make the two equations the same length. In this case, the student should ultimately select the unit block as seen in Figure 3.



- Write: Then the student should write " $10 + 1 = \underline{\quad}$ " on the dry erase board underneath " $8 + 3 = \underline{\quad}$ ". Have him or her fill in the sum for both equations.
 - Say: Have the student say, " $8 + 3$ is the same as $10 + 1$, or eleven."
3. Continue play by having the student select a new +8 fact. Repeat Steps 1 and 2.
 4. Have your student record the sums for the +8 facts found on the *Addition Facts Sheet*.

Addition Facts: Adding 8

Finish My Eights

Materials
<ul style="list-style-type: none">• Bucket of water• Paintbrush• Sidewalk chalk (optional)

Set Up: Fill the bucket with water.

Directions:

1. Have your student dip the paintbrush in water and “paint” one of the +8 facts from this lesson on the pavement but without the answer. For example, he or she might write $8 + 2 =$ with the water.
2. You paint the answer before the water dries.
3. Switch roles and keep practicing the +8 facts.

Notes:

- If your student needs support during this activity, the completed facts can be written on the pavement with sidewalk chalk to use as a reference.
- This activity can be adapted for indoor use with watercolor paints and paper.

Addition Facts Sheet

$0 + 0$ $0 + 1$ $0 + 2$ $0 + 3$ $0 + 4$ $0 + 5$ $0 + 6$ $0 + 7$ $0 + 8$ $0 + 9$

$1 + 0$ $1 + 1$ $1 + 2$ $1 + 3$ $1 + 4$ $1 + 5$ $1 + 6$ $1 + 7$ $1 + 8$ $1 + 9$

$2 + 0$ $2 + 1$ $2 + 2$ $2 + 3$ $2 + 4$ $2 + 5$ $2 + 6$ $2 + 7$ $2 + 8$ $2 + 9$

$3 + 0$ $3 + 1$ $3 + 2$ $3 + 3$ $3 + 4$ $3 + 5$ $3 + 6$ $3 + 7$ $3 + 8$ $3 + 9$

$4 + 0$ $4 + 1$ $4 + 2$ $4 + 3$ $4 + 4$ $4 + 5$ $4 + 6$ $4 + 7$ $4 + 8$ $4 + 9$

$5 + 0$ $5 + 1$ $5 + 2$ $5 + 3$ $5 + 4$ $5 + 5$ $5 + 6$ $5 + 7$ $5 + 8$ $5 + 9$

$6 + 0$ $6 + 1$ $6 + 2$ $6 + 3$ $6 + 4$ $6 + 5$ $6 + 6$ $6 + 7$ $6 + 8$ $6 + 9$

$7 + 0$ $7 + 1$ $7 + 2$ $7 + 3$ $7 + 4$ $7 + 5$ $7 + 6$ $7 + 7$ $7 + 8$ $7 + 9$

$8 + 0$ $8 + 1$ $8 + 2$ $8 + 3$ $8 + 4$ $8 + 5$ $8 + 6$ $8 + 7$ $8 + 8$ $8 + 9$

$9 + 0$ $9 + 1$ $9 + 2$ $9 + 3$ $9 + 4$ $9 + 5$ $9 + 6$ $9 + 7$ $9 + 8$ $9 + 9$