

Addition Facts: Extra Facts

Objectives

The “Extras” song assists students in mastering the single-digit addition problems of $3 + 5$, $4 + 7$, and $5 + 7$.

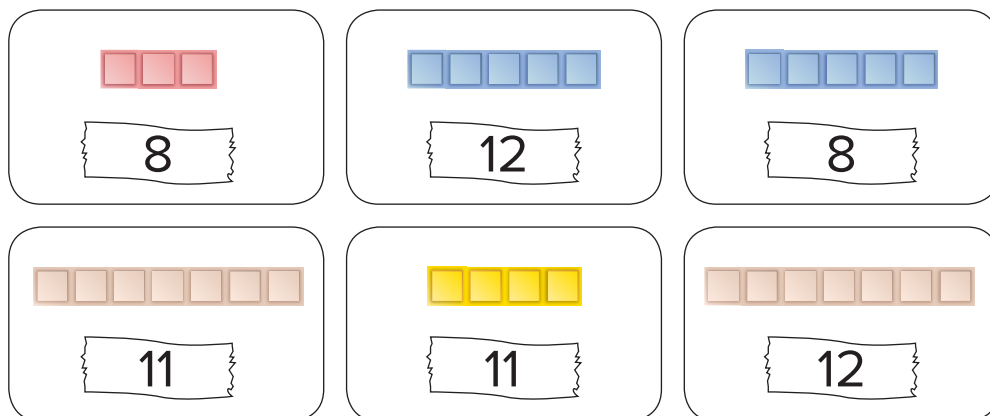
Student will complete the activities in order to master adding the extra facts $3 + 5$, $4 + 7$, and $5 + 7$.

Addend Sleuth

Materials

- *Addition Facts Sheet* (see page 4)
- Dry erase board, marker, and eraser or paper and pencil
- Highlighter
- Integer Blocks
- 6-cup muffin tin or 6 small containers
- 6 slips of paper that fit into cups or containers

Set Up: For the 6 slips of paper, write 8 on two of them, 11 on two of them, and 12 on the last two. Pick out one 3-block, one 4-block, two 5-blocks, and two 7-blocks. Place one of these blocks in each muffin cup or other container. Add to each cup or container a slip with an appropriate sum. One way to set it up is shown below:



Once set up of the containers is completed, ask your student to circle or highlight the Extras on the *Addition Facts Sheet*.

Strategy: This activity is based on Math-U-See’s Build, Write, Say method used in *Alpha* to help students master addition facts. Equations are modeled concretely, written in numerals, and verbalized.

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Addend Sleuth (Cont.)

Directions:

1. Explain to your student that each cup or container holds an addend and the sum of an Extras addition fact. For this activity he will be a sleuth (or detective) and determine the other addend that makes the sum.
2. Build:
 - Have your student select a container and build the addition problem, solving for the unknown addend. For example, if the slip of paper shows 8 for the sum, he would take an 8-block and place it horizontally on bottom of the dry erase board.
 - Next, he would take the Integer Block from the same container (e.g. 3-block) and place it directly above the 8-block so that the ends are flush.
 - Encourage him to try different Integer Blocks for the missing addend until he finds the one that when added to the 3-block makes eight (the 5-block).



3. Write:
 - Ask your student to write the equation above the Integer Blocks on the dry erase board, $3 + 5 = 8$.
4. Say:
 - Say the equation aloud together (“three plus five is the same as eight”).
5. Continue play with the remaining containers until they all have been solved.
6. Finally, have the student write the sums for the Extras facts found on the *Addition Facts Sheet*.

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Domino Extras

Materials

- *Addition Facts Sheet* (see page 4)
- Dry erase board, marker, and eraser or paper and pencil
- Dominoes (set up through nines)
- Paper bag

Set Up: Write the three Extras facts on the dry erase board with their sums for your student to use for reference. Ask your student to circle or highlight all of the Extras facts on the *Addition Facts Sheet*. Pull out the dominoes that contain a 3, 4, 5, or 7, and put them in a paper bag.

Directions:

1. Have your student draw two dominoes from the bag.

If he can use any combination of the four numbers on the dominoes as addends to make an Extras fact on the board, he should say the fact and the sum. If he is correct, he gets to keep the dominoes.

If he cannot use the dominoes' numbers to make an Extras fact, he puts them back into the bag.

2. Take turns until all the dominoes are drawn or no more matches can be made. Whoever has the most dominoes wins!
3. You may wish to conclude by having the student write the sums for the Extras facts found on the *Addition Facts Sheet*.

Addition Facts Sheet

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

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

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

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

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

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

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

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

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

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