

Small Array/Big Array

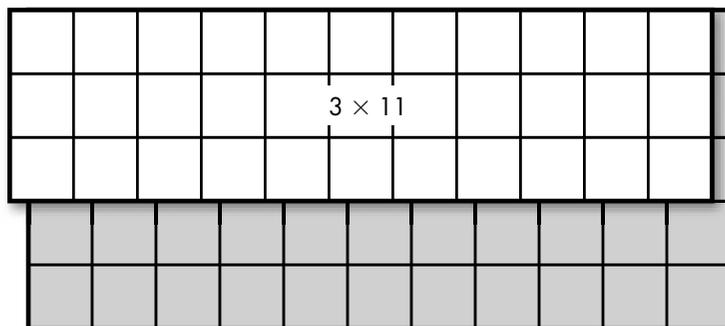
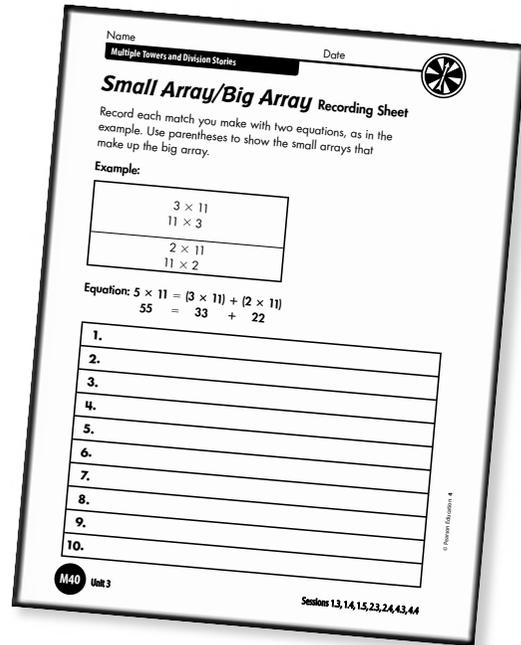
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You need

- set of Array Cards
- *Small Array/Big Array* Recording Sheet
- construction paper

Play with a partner, or form 2-player teams and play each other.

- 1 Deal out 10 Array Cards to each player (or team) and spread them out, factor side up.
- 2 On a sheet of construction paper, spread out 6 more Array Cards, factor side up. These are the center cards. Place the remaining cards in a pile to one side.
- 3 Players take turns matching small arrays to big arrays. "Matching" means that both arrays have one dimension, or one whole side, that is the same. For example, 3×11 and 5×11 are a match.
- 4 On your turn, try to match one of your Array Cards to a center card. Place your card on top of the center card so that it covers part of the array. You may play only one array on a turn.





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- 5** If none of your Array Cards matches a center card, you may do one of these two things:
- (a) Draw a card from the pile. Play it if you can, or add it to your Array Cards if you cannot.
 - (b) Choose one center array that matches another center array, and play that card. This is particularly useful when there are small arrays in the center.
- 6** If you use a center array to cover another center array, you must either
- (a) replace it with a card from the pile; or
 - (b) put one of your own Array Cards in the center. There must always be 6 cards in the center.
- 7** The goal is to make a complete match by covering a big array with a combination of 2 or 3 smaller arrays. When you play a card that makes a complete match, you collect both the big array and the smaller arrays covering it. Then you replace the center card with one from the pile. On the *Small Array/Big Array Recording Sheet*, use equations to record the complete match, using parentheses to show the smaller arrays. For example:
- $$\begin{array}{r} 5 \times 11 = (3 \times 11) + (2 \times 11) \\ 55 = 33 + 22 \end{array}$$
- 8** Keep in mind that there is only one card for each array. Sometimes, to complete a match, you need an array that has already been used. When this happens, you may use your turn to say what the needed card is and complete the match.
- 9** The game is over when there are no more cards or no more matches can be made.