

Activity for Connecting Addition and Multiplication

Pumpkin Seed



Multiplication



By Laura Candler



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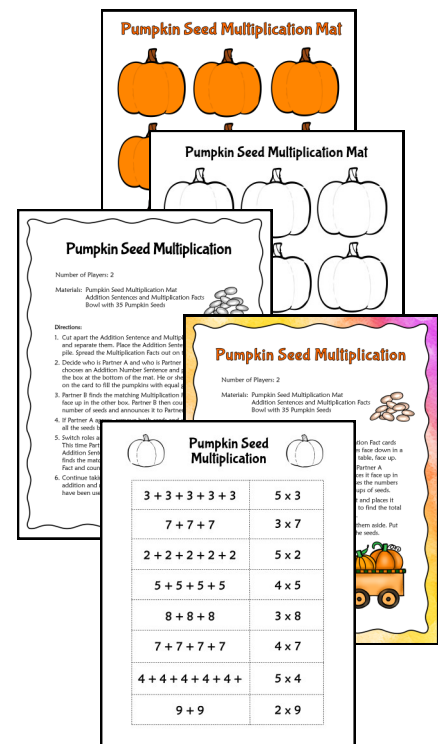
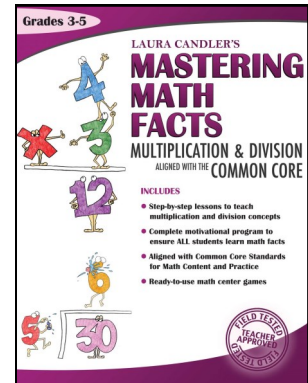
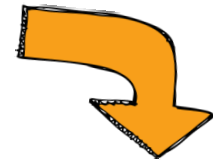
Pumpkin Seed Multiplication is a hands-on activity that I adapted from a lesson in my book *Mastering Math Facts: Multiplication and Division*. This activity will help students connect addition with multiplication. Click the image on the right to learn more and download a free 45-page sampler!

Materials Needed

For each pair of students, you'll need one Pumpkin Seed Multiplication Mat and the activity directions (color or B&W). If you prefer, you can save paper by displaying the directions for the whole class using a document camera instead of printing them. You'll also need the Addition Sentence cards, Multiplication Fact cards, and a small bowl of about 35 "pumpkin seeds." You can use real pumpkin seeds (dried, of course!) or any small item such as dried beans, paperclips, plastic chips, or unit cubes. To create extra number sentences and multiplication facts, use the blank cards on page 8.

Teaching Suggestions

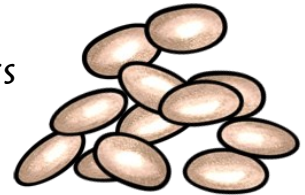
Before introducing the activity, make sure your students have had other opportunities to explore the meaning of multiplication and how it relates to addition. They should have already been introduced to the idea that a multiplication fact such as "3 x 5" means "3 groups of 5" and is equal to "5 + 5 + 5." Start by choosing a student to help you model the activity in front of the class. Review the directions on the next page and demonstrate how to do each step. Remind your students that this is a learning activity, not a competitive game, and there are no winners and losers. Then assign partners, hand out the materials, and guide your students through the activity. After they have completed it with your guidance or in a small group setting, you can place the activity in a math center. The activity directions do not require students to write down the number sentences and total seeds, but you can certainly have them do that in a math journal.



Pumpkin Seed Multiplication

Number of Players: 2

Materials: Pumpkin Seed Multiplication Mat
Addition Sentences and Multiplication Facts
Bowl with 35 Pumpkin Seeds



Directions:

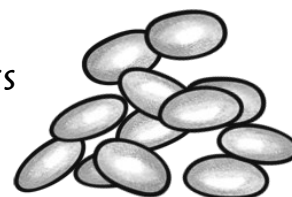
1. Cut apart the Addition Sentence and Multiplication Fact cards and separate them. Place the Addition Sentences face down in a pile. Spread the Multiplication Facts out on the table, face up.
2. Decide who is Partner A and who is Partner B. Partner A chooses an Addition Number Sentence and places it face up in the box at the bottom of the mat. He or she uses the numbers on the card to fill the pumpkins with equal groups of seeds.
3. Partner B finds the matching Multiplication Fact and places it face up in the other box. Partner B then counts to find the total number of seeds and announces it to Partner A.
4. If Partner A agrees, remove both cards and set them aside. Put all the seeds back in the bowl. If not, recount the seeds.
5. Switch roles and repeat steps 1 - 4. This time Partner B chooses the Addition Sentence and Partner A finds the matching Multiplication Fact and counts the seeds.
6. Continue taking turns until all the addition and multiplication cards have been used or the time runs out.



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Addition Sentences and Multiplication Facts
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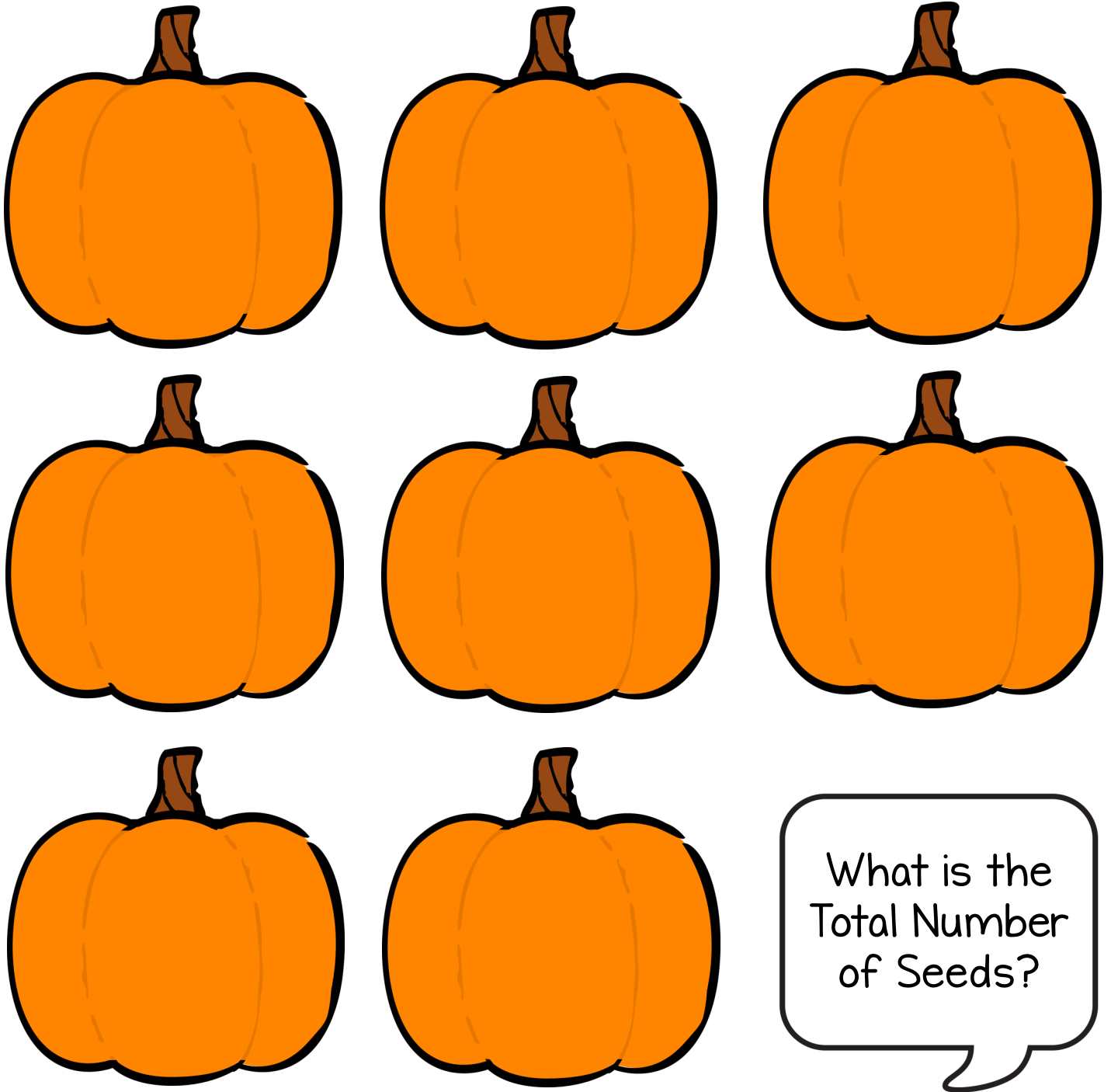


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Pumpkin Seed Multiplication Mat

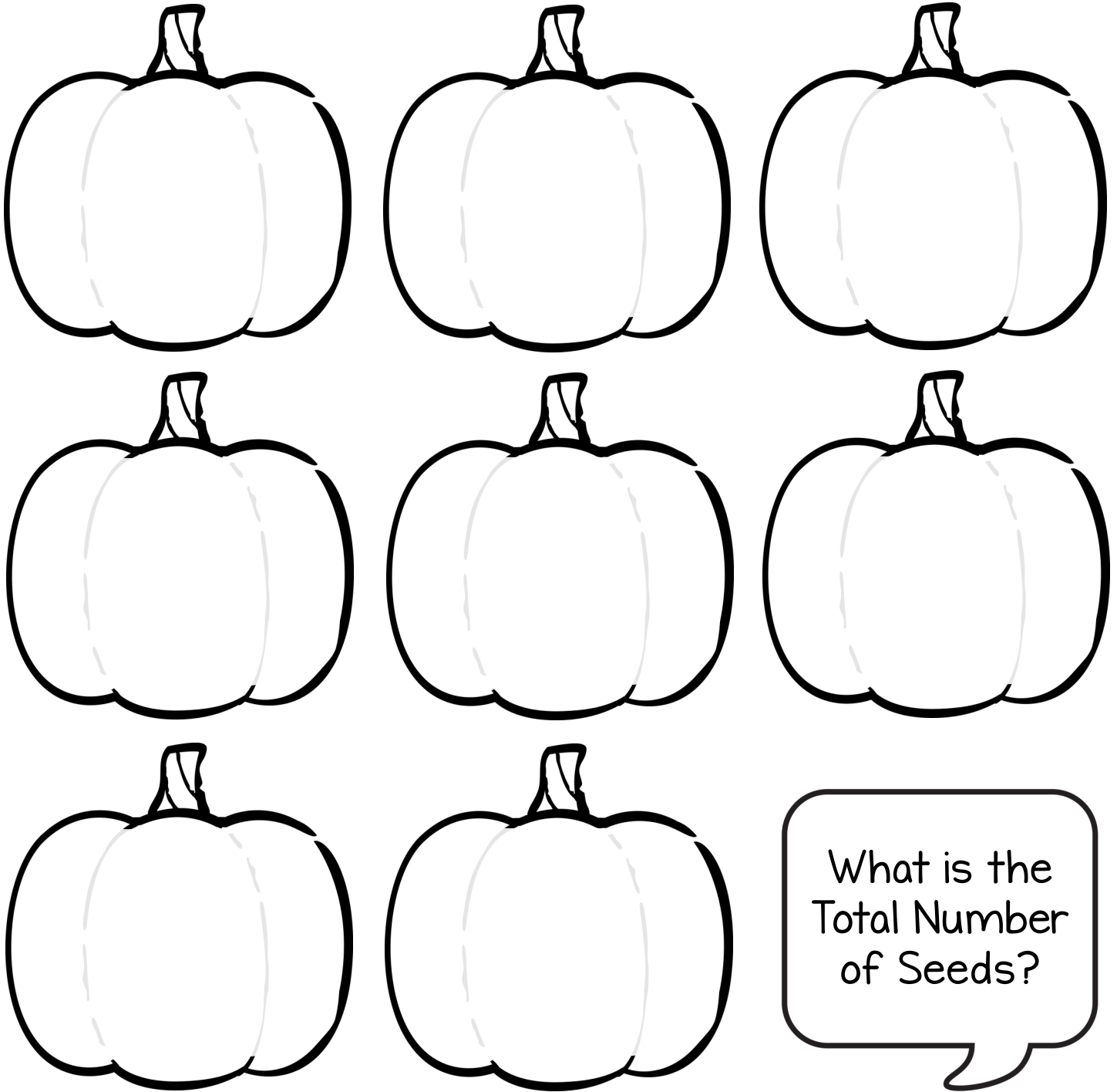


Addition Number Sentence

Multiplication Fact

=

Pumpkin Seed Multiplication Mat



Addition Number Sentence

=

Multiplication Fact



Pumpkin Seed Multiplication



$$3 + 3 + 3 + 3 + 3$$

$$5 \times 3$$

$$7 + 7 + 7$$

$$3 \times 7$$

$$2 + 2 + 2 + 2 + 2$$

$$5 \times 2$$

$$5 + 5 + 5 + 5$$

$$4 \times 5$$

$$8 + 8 + 8$$

$$3 \times 8$$

$$7 + 7 + 7 + 7$$

$$4 \times 7$$

$$4 + 4 + 4 + 4 + 4 +$$

$$5 \times 4$$

$$9 + 9$$

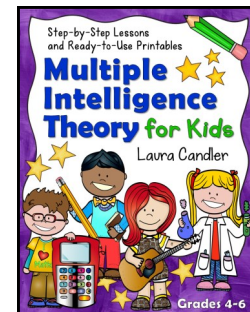
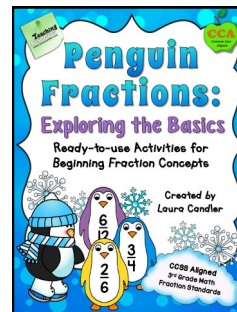
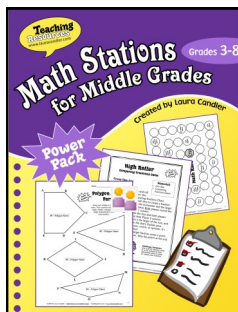
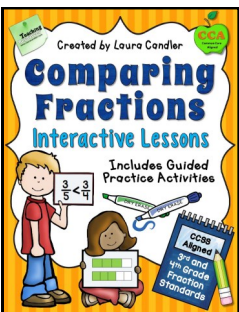
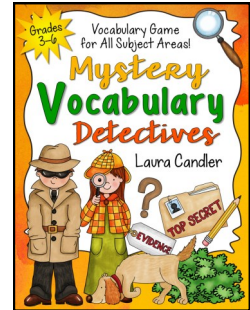
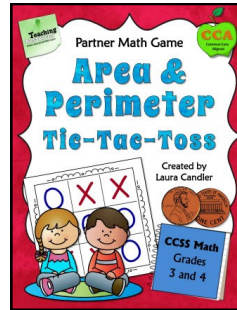
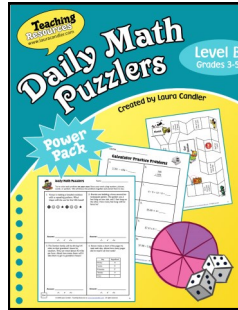
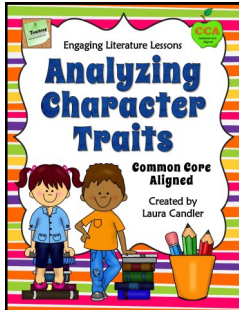
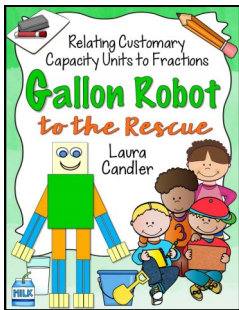
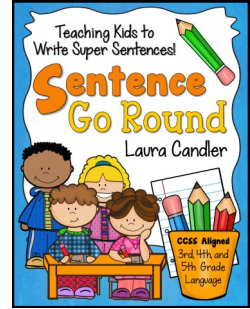
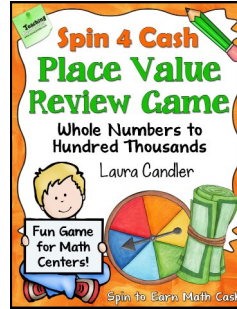
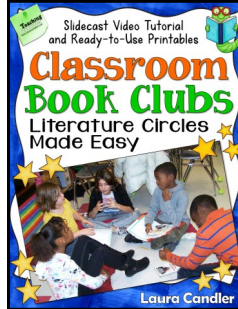
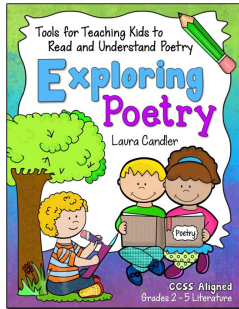
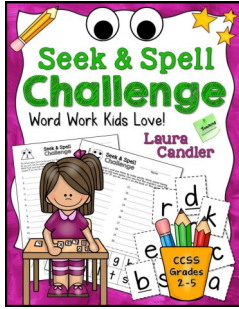
$$2 \times 9$$



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