Handout: Tasks from Curriculum Materials¹

Nam

Date

Student Sheet 8

How to Play Guess My Rule with Shapes

Materials:

Deck of Guess My Rule cards

Two areas for grouping shapes according to whether or not they fit a rule—for example, a circle made of string or two different pieces

of paper.

Players: 2

How to Play

- 1. The first player chooses a rule and gives a few examples, putting those shapes that fit the rule in one place (e.g., inside the circle) and those shapes that do not in the other place (e.g., outside the circle). The rule should focus on properties of geometric shapes, such as the shapes in the circle being all right triangles, all triangles with at least one right angle, or all quadrilaterals that are not squares.
- The second player tries to guess the rule by placing a shape either inside or outside the circle, depending on whether the player thinks it fits the rule or not.
- 3. The first player says whether or not the placement is correct.
- 4. The second player uses this information to eliminate possibilities, devise new solutions, and revise earlier guesses of what the rule might be. Using this new information, the second player again tries to guess where a particular shape belongs.
- Repeat steps 3 and 4. The second player can guess a rule if the player thinks he or she has found a solution. The first player says whether or not the rule is correct.
- Play continues until the second player guesses the rule or there are no shapes left to place.

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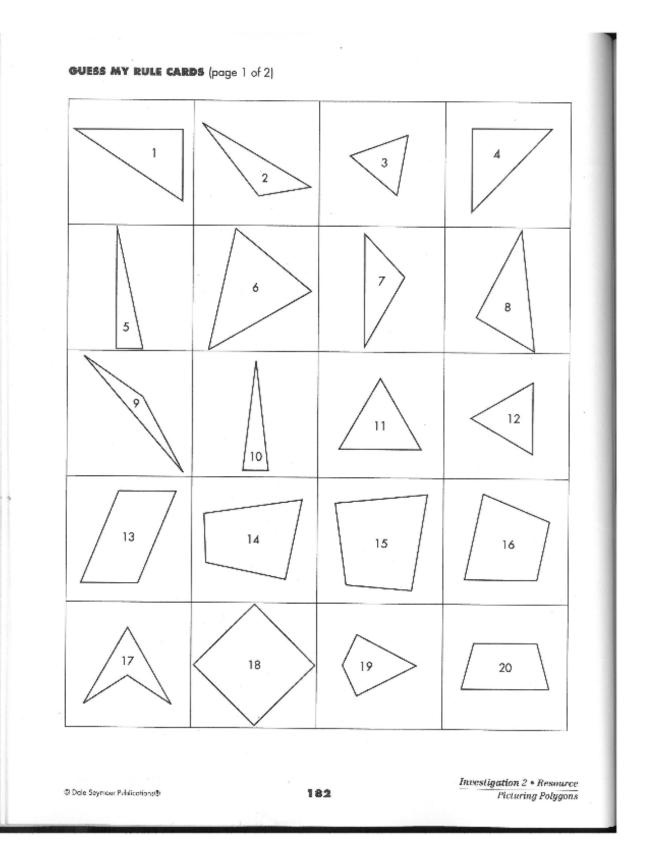
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Investigation 2 • Sessions 1-3
Picturing Polygons

¹ Excerpted from Clements, D., Tierney, C., Murray, M., Akers, J., Sarama, J. (2004). Guess my rule. In *Picturing Polygons: 2-D Geometry – Investigations in Number, Data, and Space, Grade 5.* (2nd ed.) (pp. 171, 182-183). Glenview, IL: Pearson Education, Inc.



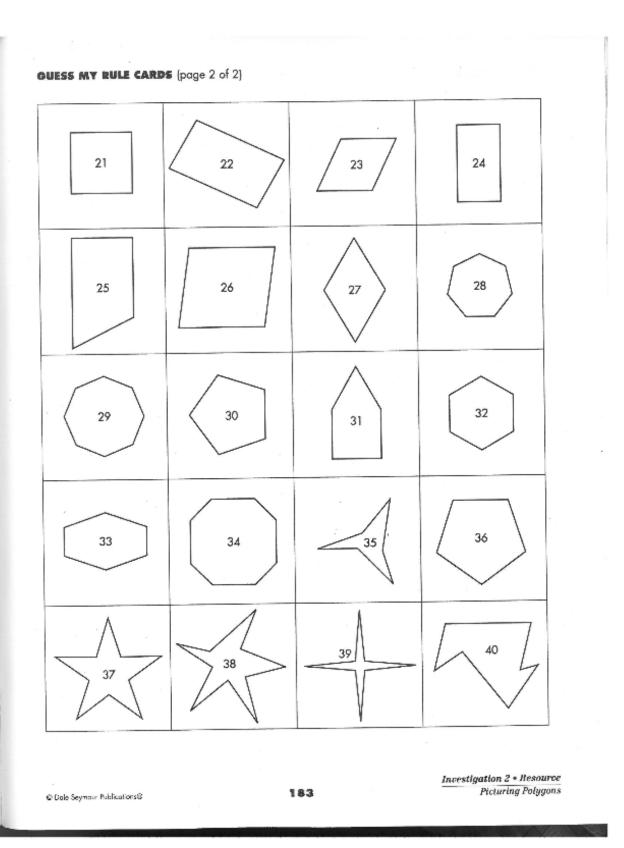
Supporting Reasoning and Explanations in Elementary Mathematics Teaching **Session 9 Resource**



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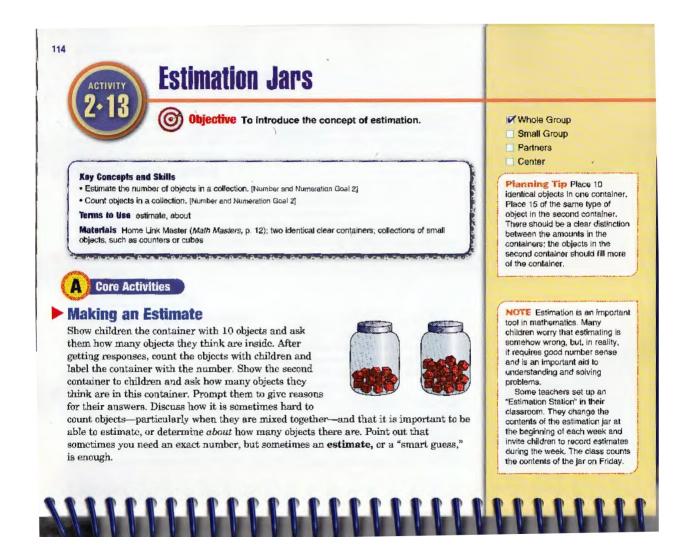


Supporting Reasoning and Explanations in Elementary Mathematics Teaching **Session 9 Resource**



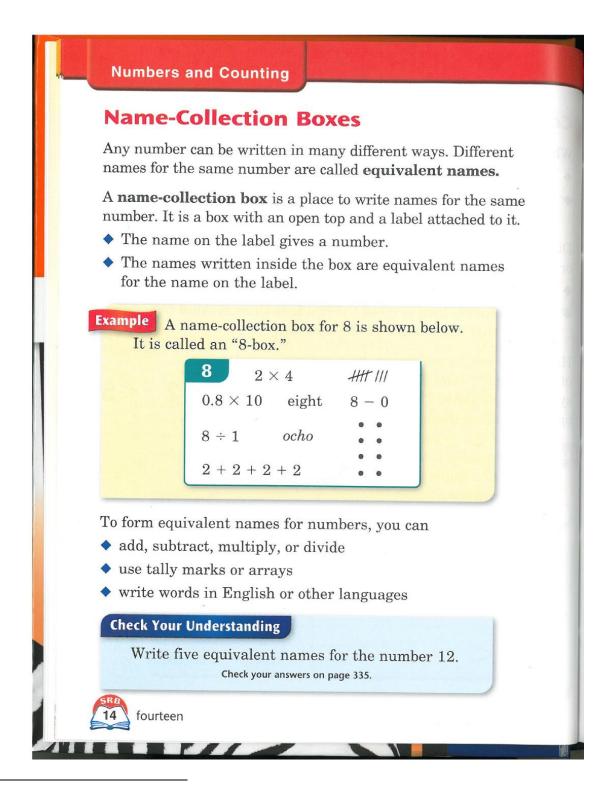
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Estimation Jar Activity²



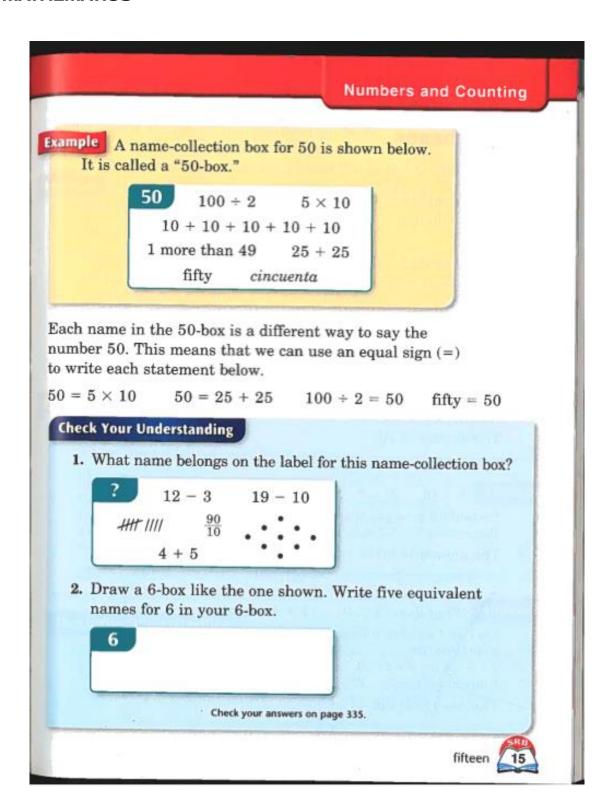
² Excerpted from Bell, J., Bell, M., Beer, D.W., Freedman, D., Goodsell, N.G., Hanvey, N., et al. (2007). Estimation jars. In *Everyday Mathematics – Teacher's Guide to Activities, Grade K* (3rd ed.) (pp. 114-115). Chicago, IL: Wright Group/McGraw Hill. See the original publications for information about the copyright for excerpted examples. The page images included here are intended only for educational use as part of the DTE professional development.

Name-Collection Boxes Activity³



³ Excerpted from Bell, M., Bell, J., Bretzlauf, J., Dairyko, M.E., Dillard, A., Hartfield, et al. (2007). Name-collection boxes. In *Everyday Mathematics – Student Resource Book, Grade 3* (3rd ed.) (Vol. 1, pp. 14-15). Chicago, IL: Wright Group/McGraw Hill. See the original publications for information about the copyright for excerpted examples.

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Dividing Whole Numbers⁴

ווט	/laing v	Whole Nun	npers	P 3-4
Find	each quotien	t. Check your answe	ers by multiplying.	
1. 2	2)586	2. 3)565	3. 5)718	4. 4)599
5. 8	5)642	6 . 6)354	7 . 9)210	8. 8)927
				¥
9. I	Paez family lives in Louisville, Kent a road trip for their summer vacati How many miles will the Paez family drive each day if they decide to take 5 days to drive 865 mi to Dallas?		itucky, and has decided to tion. 10. The Paez family decides they want to drive 996 mi to Boston in 6 days How many miles will they drive each day?	
Test	Prep			
r	If a staff of 9 had to clean a hotel with 198 rooms, how many rooms would each person have to clean if they divided the rooms equally?			
,	A. 29	B. 25	C . 23	D. 22
12. \	Writing in Math Explain how to check the quotient from a division problem.			
				7.000
				•

⁴ Excerpted from Charles, R.I., Crown, W., Fennell, F., Caldwell, J.H., Cavanagh, M., Chancellor, D., et al. (2004). Dividing whole numbers. In *Scott Foresman Addison Wesley mathematics – Grade 5 Practice Masters/Workbook.* (p. 37). Glenview, IL: Pearson Education, Inc.

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