Dan's Doggy Daycare

Teacher's Guide

Lalie Harcourt and Ricki Wortzman

Line Masters

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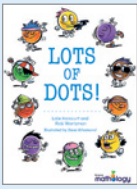You can use these log-in details to access all your Pearson Places titles.

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Mathology Little Books

This series recognizes that children's understanding of maths concepts develops over time, and so the series allows you to choose the book that best matches a child's or group's level of mathematical understanding. The books engage children at just the right level in a wide range of mathematical ideas, thinking, and activities in a variety of real world and imaginary contexts.

Dan's Doggy Daycare engages children in conversations, investigations, and activities that help to develop their understanding of the big maths idea that "Numbers tell us how many and how much."*

Big Idea: Numbers tell us how many and how much
(Count and subitize. Read, write, model and order numbers.)

TITLE	KEY MATHS FOCUS	MATHS SKILLS	STRATEGIES	ADDITIONAL FOCUS
A Warm, Cozy Nest	Count sets to 5 Recognize numerals to 5	Stable order 1-1 correspondence Cardinality Subitize	Count on Touch and count	Describe 1 more than a given number (to 5) Use positional language to describe location Compare height
LOTS OF DOTS!	Count and compare sets to 10 • Connect number names and quantities to 10 Compose and decompose to 10	Subitize 1-1 correspondence Stable order Cardinality Identify parts and the whole	Count on Touch and count Count forward and back Tens friends	Copy and describe repeating patterns Recognise circles Use positional language to describe location
Animals Hide	Count sets to 10 • Connect number names and quantities to 10 Compare quantities to 10	1-1 Correspondence Stable order Cardinality Counts on or back by 1 or 2 from a number Compare, identify and create sets with 1 or 2 more, less or equal	Count on Touch and count Count forward and back Predict how many	Compare height Use positional language to describe location Sort and record findings
Dan's Doggy Daycare	**Count and compare sets to 10** **• Connect number names and quantities to 10** **Compose and decompose 10**	**1-1 Correspondence** **Stable order** **Cardinality** **Subitize** **Determine how many more/less** **Identify parts and the whole**	**Count on** **Touch and count** **Tens friends**	**Use positional language to describe location**
Acorns for Wilaiya	Count sets to 10 • Write and match numerals to counted numbers Compare sets to 10	1-1 Correspondence Stable order Cardinality Match, name and write numerals to 10 Subitize Compose and decompose to 10	Count on Touch and count	Use positional language to describe location Sort and identify sorting rules

* This book can also be used to address the big idea "Numbers are related in many ways."

Counting to find how many

- How many food bowls are there? *(10)* Water bowls? *(10)* Bones? *(10)* Toys? *(10)*

- How many water bowls and food bowls do you think there are altogether? *(20)* How can we count to find out? *(bowls might be counted by 1s, 2s, or 10s)*

Counting to compare

- Do you think there are more water bowls with stripes or more water bowls with dots? *(stripes)* What makes you think that?

Dan fills 10 bowls with water.
He fills 10 bowls with food.

CONNECTING TO GEOMETRY

Positional Language: Ask: **What is above every dog's picture? What is between the food bowl and the toy? What is between the bone and the water bowl? What is inside the shelf?**

He puts out 10 bones and 10 toys.

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Composing and decomposing 10

- How many water bowls do you count? *(10)* How can you describe them using numbers? *(6 have stripes and 4 have dots)*

- How can you use numbers to tell about the size of the food bowls? *(there are 10 bowls and 8 are big and 2 are small)*

- If (2) dogs stayed home from daycare, how many dogs would be there that day? *(8)*

- Suppose (6) dogs are sleeping. How many would be awake? *(4)*

WATCH FOR...

- When responding to the question of how many items (bowls, toys, and so on), does the child count each set separately? Or, does the child recognize that the groups are matched one-to-one and respond "10" without counting?

- Counting the total number of water and food bowls offers the opportunity to observe whether and/or how children count beyond 10. Some children may skip-count by 2s, 5s, or 10s.

Large Group Options

If you read *Dan's Doggy Daycare* to a large group or whole class, you might project the book to facilitate reading aloud and better engage children in counting and comparing. These activities engage children in exploring and communicating their understanding of numbers to 10; choose the activities that best address your children's learning needs. Children may share other strategies and when they do, focus attention on their reasoning and ask them to pay attention and restate the ideas of others.

CREATING 10 FOR THE DOGGY DAYCARE

ENGAGE

Draw attention to pages 4 and 5 of *Dan's Doggy Daycare* and ask:
- **What different sets of 10 objects do you see?** *(leashes, bones, bowls, toys, and so on)*
- **What do you notice about each set of 10 objects? How would you use numbers to describe the set of (food bowls)?** *(8 large and 2 small)*
- **Where do you see 10 as (6 and 4)?** *(the water bowls)*

Record responses on a chart under a title such as "Ten Can Be."

Present a problem that engages children in creating a new set of 10:
- **Dan has 10 mats, 10 water bowls, 10 food bowls, 10 toys, and 10 bones. What else could Dan have for the dogs?**

WORK ON IT

Make drawing and writing materials available so children can draw and describe a set of 10 objects that they would add to the daycare:
- **First, think about how your objects are the same and how they are different. How can you draw them so they are easy to count? Use numbers and words to describe what you have drawn.**

SHARE AND REFLECT

Meet and prompt reflection by asking questions such as:
- **What did you draw for the daycare? Why?**
- **What numbers best describe your drawing?**
- **How did you arrange your objects to make them easy to count?**
- **How is your arrangement similar to (different from) another arrangement you have seen?**

Invite children to contribute their ideas to the "Ten Can Be" chart.

MATHS FOCUS: count, create, and describe sets to 10

MATERIALS: *Dan's Doggy Daycare*, pp. 4–5; drawing and writing materials; chart paper

> ### Ten Can Be
> – 10 water bowls;
>   6 striped and 4 dotted
> – 10 food bowls;
>   8 large and 2 small

WATCH FOR...
- Does the child draw a set of 10 objects?
- Does the child arrange the objects so they can be counted easily?
- Does the child use numbers correctly to describe his/her drawing?

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Line Master 1
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Letter Template

Line Master 3
Ten-Trains

Line Master 4
Ten-Frame

Line Master 5
Ten-Frame Recording Sheet

Line Master 6
Numeral Cards

Line Master 7
Undercover Recording Sheet

Line Master 8
Inside-Outside Story Mat

Line Master 9
Inside-Outside Recording Sheet

Line Master 10
Story Template

Line Master 11
Making "10" Problems