



Math in Focus: Singapore Math National Institute
July 16-17 2013 | Philadelphia PA

*The CCSS Mathematical
Practices & Math in Focus*

8 practices

Habits of Mind Of a Productive Mathematical Thinker	Reasoning and Explaining MP.2 Reason abstractly and quantitatively MP.3 Construct viable arguments and critique the <u>reasoning</u> of others.
	Modeling Using Tools MP.4 Model with mathematics MP.5 Use appropriate tools strategically
	Seeing Structure and Generalizing <u>MP.7</u> Look for and make sense of structure. <u>MP.8</u> Look for and express regularity in repeated <u>reasoning</u> .
MP.1 Make sense of <u>problems</u> and <u>persevere</u> in solving them.	
MP.6 Attend to Precision	



Are the δ created equally?

Teachers who foster the practices...

Ensure that every child has
a mathematical voice

Know when to slow down and
what to slow down for

Ask the right questions

8 practices

Reasoning and explaining

Grade 2 - Subtraction

8 practices

Reasoning and explaining



READING AND WRITING MATH

Math Journal

**Tell how you could solve this problem.
Then solve it.
How could you check your answer?**

- 2 There are 781 rooms in a hotel.
472 rooms are white.
The rest are blue.
How many rooms are blue?

8 practices

modeling using math/use tools

Grade 2 - Grouping

8 practices

modeling using math/use tools

Let's Explore!

Two types of animals are playing.
Some of the animals have 2 legs.
The others have 4 legs.
The animals have 10 legs altogether.

How many animals of each type are there?

Draw diagrams to help you.
You can have more than one
correct answer.



8 practices

seeing structure and generalizing

Grade 1 – Patterns

8 practices

seeing structure and generalizing



Put on Your Thinking Cap!

Problem Solving

Fill in the blanks.

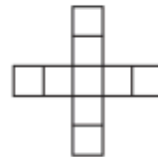
Jan uses tiles to make shapes that form a pattern.



Shape 1



Shape 2



Shape 3

?

Shape 4

1. Draw Shape 4.

2. Jan needs _____ more tiles to make Shape 4.

Teachers who foster the practices...

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a mathematical voice

Know when to slow down and
what to slow down for

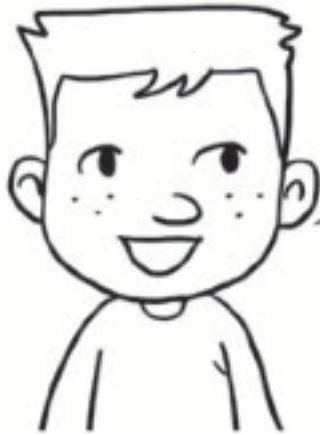
Ask the right questions

Solve and Discuss

Which Common Core Practices are addressed in the following problems?

Kindergarten – number sense

c.



d.



15 is 5, 5,
and 5.

14 is 8
and 5.

Grade 1 – Problem Solving



Put On Your Thinking Cap!



Challenging Practice

1. Class 1A of Greenfield School holds a basketball contest. Find out who won.

CLUES

Rita scores the least number of baskets.

John scores 3 more baskets than Rita.

Dion scores more baskets than Rachel but less than Frank.

Write the names next to the number of baskets scored.

Baskets Scored

Who won the contest? _____

Grade 1 – Problem Solving



Put On Your Thinking Cap!

Challenging Practice

Draw the amount of money using (5¢), (10¢), (25¢), \$1 and \$5.

\$9.40

A large, empty rectangular box with rounded corners, intended for drawing the amount of money \$9.40 using the specified coins and bills.



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Thank you!

Kelly Snyder
Math in Focus National Specialist
kelly.snyder@hmhco.com