



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

The CCSS Mathematical Practices & Math in Focus

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8 practices



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.



Are the δ created equally?

8 practices

Reasoning and explaining

Grade 3 – Multiplication

8 practices

Reasoning and explaining

I am a two-digit number.

I am less than 50.

Count in sixes and you will find me!

Divide my tens digit by 2 and you will find my ones digit.

What am I?

8 practices

Reasoning and explaining

For exercises 2–4, pick one number from Bag A and one number from Bag B.



Bag A

Bag B

- 3.** Pick two numbers that give a product between 501 and 750.

8 practices

Reasoning and explaining

A and B represent different numbers.
Find all possible values of A and B.

$$\begin{array}{r} 8 \\ \times 4 \\ \hline 3 2 \end{array}$$

8 practices

modeling using math

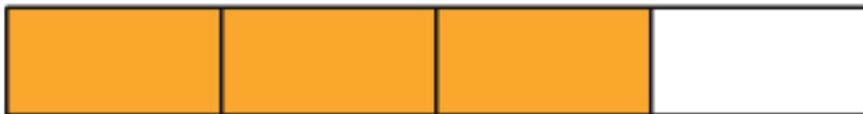
Grade 4– Fractions

8 practices

modeling using math

PROBLEM SOLVING

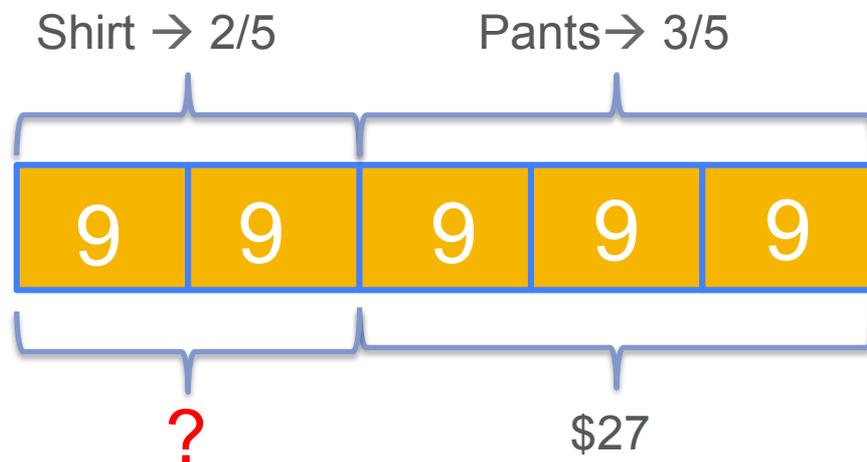
- 1 The model shows $\frac{3}{4}$ of a fraction strip shaded.
How many of the shaded parts must be erased so that the remaining shaded parts are $\frac{3}{8}$ of the strip?



8 practices

modeling using math

Justin buys a pair of pants and a shirt. He spends $\frac{2}{5}$ of the total money on the shirt. He pays \$27 for the pair of pants. How much does Justin pay for the shirt?



$$27 \div 3 = 9$$

$$9 \times 2 = 18$$

The shirt cost \$18.

8 practices

seeing structure and generalizing

Grade 5 – Problem Solving

8 practices

seeing structure and generalizing

Kirsten has 64 coins in her piggy bank. She has \$9.25 in dimes and quarters. How many dimes and how many quarters does she have?

8 practices

seeing structure and generalizing

PROBLEM SOLVING

Grace thinks of a number. First, she multiplies it by 2. Then, she adds 12. Finally, she subtracts twice the number that she originally thought of. What is the answer that she will get?

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Thank you!

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