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# The Common Core in Mathematics



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# Six Shifts

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- Focus
- Coherence
- Fluency
- Deep Understanding
- Applications
- Dual Intensity

# Focus Area by Grade Band

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Grade	Priorities in Support of Rich Instructions and Expectations of Fluency and Conceptual Understanding
K-2	Addition and subtraction, measurement using whole number quantities
3-5	Multiplication and division of whole numbers and fractions
6	Ratios and proportional reasoning; early expressions and equations
7	Ratios and proportional reasoning; arithmetic of rational numbers
8	Linear algebra

# Priorities for Focus

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	10% Sample	20% Rethink and Link	70% Intensive Focus
K-2 examples	<ul style="list-style-type: none"> <li>• Patterns</li> <li>• Statistics/Data</li> <li>• Probability</li> <li>• Estimating computations</li> </ul>	<ul style="list-style-type: none"> <li>• Geometry and measurement</li> </ul>	<ul style="list-style-type: none"> <li>• Addition and subtraction concepts, skills, and problem solving</li> </ul>
3-5 examples	<ul style="list-style-type: none"> <li>• Patterns</li> <li>• Statistics/Data</li> <li>• Probability</li> </ul>	<ul style="list-style-type: none"> <li>• Area, volume</li> </ul>	<ul style="list-style-type: none"> <li>• Multiplication and division of whole numbers and fractions, balance of concepts, skills, problem solving</li> </ul>
6-8 examples	<ul style="list-style-type: none"> <li>• Statistics</li> </ul>	<ul style="list-style-type: none"> <li>• Quantitative relationships and functions</li> </ul>	<ul style="list-style-type: none"> <li>• Proportional reasoning and linearity</li> <li>• Algebra</li> <li>• Geometric measurement</li> </ul>

# Fluency by Grade

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Grade	Required Fluency
K	Add/subtract within 5
1	Add/subtract within 10
2	Add/subtract within 20 Add/subtract within 100 (pencil and paper)
3	Multiply/divide within 100 Add/subtract within 1,000
4	Add/subtract within 1,000,000
5	Multi-digit multiplication
6	Multi-digit division Multi-digit decimal operations
7	Solve $px+q=r$ , $p(x+q)=r$
8	Solve simple $2 \times 2$ systems by inspection

# Network Team Summer Institute

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Make true equations. Write one number in every space. Draw a picture if it helps.

- 1) 1 hundred + 4 tens = \_\_\_\_\_
- 2) 4 tens + 1 hundred = \_\_\_\_\_
- 3) 14 tens = 10tens + \_\_\_\_\_ tens  
= \_\_\_\_\_ hundred + 4 tens  
= \_\_\_\_\_
- 4) 7 ones + 5 hundreds = \_\_\_\_\_
- 5) 8 hundreds = \_\_\_\_\_
- 6) 106 = 1 hundred + \_\_\_\_\_ tens + \_\_\_\_\_ ones
- 7) 106 = \_\_\_\_\_ tens + \_\_\_\_\_ ones
- 8) 106 = \_\_\_\_\_ ones
- 9) 90 + 300 + 4 = \_\_\_\_\_

Are these comparisons true or false?

- 10) 2 hundreds + 3 ones > 5 tens + 9 ones  
\_\_\_\_\_
- 11) 9 tens + 2 hundreds + 4 ones < 924  
\_\_\_\_\_
- 12) 456 < 5 hundreds  
\_\_\_\_\_

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Thank You.



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