

CPS Benchmark Assessment - Winter 2006 - Grade 4

This table is a resource created to expand students' understanding of the concepts covered by the CPS Benchmark Assessment. Benchmark questions and related concepts are listed in columns 1 and 2. Column 3 displays the state learning goal related to the concept. Column 4 displays the path students follow on <http://countdown.luc.edu> to access movies relevant to the concept covered by the question. Instructional movies can be viewed FREE of charge as many times as a student desires. (NCTM standards are in the left margin of the Countdown homepage → their subcategories are shown underneath → these link to lists of movie titles.)

Question #	Concept	State Learning Goal #	NCTM Standard → Category → Movie Title
1	Place Value	6	<ul style="list-style-type: none"> • Number & Operations → Whole Numbers → Creating Large Numbers: Computer • Number & Operations → Decimals → Place Value: Part 1 • Number & Operations → Decimals → Place Value with Exponents
2	Time	7	<ul style="list-style-type: none"> • Technology → Spreadsheets → Creating a Schedule on the Computer: Part 1 • Technology → Spreadsheets → Creating a Schedule on the Computer: Part 2
3	Lines of Symmetry	9	<ul style="list-style-type: none"> • Geometry → Symmetry → Symmetry Fun* • Geometry → Symmetry → Symmetry Using Polygons* • Geometry → Symmetry → Symmetry Using the Alphabet • Geometry → Symmetry → Symmetry: Intro 1* • Geometry → Symmetry → Symmetry: Intro 2*
4	Multiplication	8	<ul style="list-style-type: none"> • Algebra → Games & Puzzles → Postage Stamp Riddles
5	Probability	10	<ul style="list-style-type: none"> • Data Analysis & Probability → Probability → Probability Intro* • Data Analysis & Probability → Probability → Probability Using Gumballs
6	Area and Perimeter	7	<ul style="list-style-type: none"> • Measurement → Area & Perimeter → Rectangle Riddles: Intro • Measurement → Area & Perimeter → Solving Rectangle Riddles • Measurement → Area & Perimeter → Solving Rectangle Riddles with Factors • Measurement → Area & Perimeter → Writing Rectangle Riddles*
7	Fraction Visuals	6, 10	<ul style="list-style-type: none"> • Number & Operations → Fractions → Fraction Visuals • Number & Operations → Fractions → Fraction Squares on the Computer* • Extended Response → Number & Operations → Fraction Design: Explorations on the Computer • Data Analysis & Probability → Probability → Probability Formula*
8	Number Patterns	8	<ul style="list-style-type: none"> • Algebra → Patterns → Number Sequence: Introduction* • Algebra → Patterns → Number Sequence: Visual* • Algebra → Patterns → Square Number Sequence* • Algebra → Patterns → Cube Number Sequence*
9	Pictogram	10	<ul style="list-style-type: none"> • Data Analysis & Probability → Graphs → Pictogram, Bar & Line*

* indicates an accompanying downloadable worksheet available <http://COUNTDOWN.LUC.EDU>

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10	Parallel Lines	9	<ul style="list-style-type: none"> • Geometry → Lines & Angles → Classifying Lines • Geometry → Lines & Angles → Lines on a Coordinate Grid • Geometry → Lines & Angles → Using Line Notation
11	Fractions on the Number line	10	<ul style="list-style-type: none"> • Data Analysis & Probability → Probability → Probability Between Zero & One*
12	Probability	10	<ul style="list-style-type: none"> • Data Analysis & Probability → Probability → Probability Intro* • Data Analysis & Probability → Probability → Probability Formula* • Data Analysis & Probability → Probability → Probability Using Gumballs
13	Measurement units	7	<ul style="list-style-type: none"> • Measurement → Metric & Customary Units(*)
14	Nets	7, 9	<ul style="list-style-type: none"> • Measurement → Metric & Customary Units → Surface Area: Inches • Geometry → Three-Dimensional Shapes → Polyhedra Nets 1* • Geometry → Three-Dimensional Shapes → Polyhedra Nets 2* • Geometry → Three-Dimensional Shapes → Polyhedra Nets on the Computer Part 1 • Geometry → Three-Dimensional Shapes → Polyhedra Nets on the Computer Part 2
15	Range	10	<ul style="list-style-type: none"> • Data Analysis & Probability → Statistics → Range • Data Analysis & Probability → Statistics → Range: Part 2 • Data Analysis & Probability → Statistics → Statistics Definitions & Review • Data Analysis & Probability → Statistics → Vocabulary Range
16	Simple word problems	6	<ul style="list-style-type: none"> • Number & Operations → Whole Numbers → Computation Vocabulary • Number & Operations → Whole Numbers → Word Problems & Comparisons
17	Simple word problems	6	<ul style="list-style-type: none"> • Number & Operations → Whole Numbers → Computation Vocabulary • Number & Operations → Whole Numbers → Word Problems & Comparisons
18	Measurement units	7	<ul style="list-style-type: none"> • Measurement → Metric & Customary Units(*)
19	Right Angles	7, 9	<ul style="list-style-type: none"> • Geometry → Lines & Angles → Classifying Angles • Measurement → Circles & Angles → Exploring Angles Using a Clock*
20	Simple word problems		<ul style="list-style-type: none"> • Number & Operations → Whole Numbers → Word Problems & Comparisons
21	Volume	7	<ul style="list-style-type: none"> • Measurement → Solids → Volume & Surface Area* • Measurement → Solids → Volume & Surface Area: Part 1* • Measurement → Solids → Volume & Surface Area: Part 2* • Measurement → Solids → Volume: Part 1 • Measurement → Solids → Volume: Part 2
22	Transformations	9	<ul style="list-style-type: none"> • Geometry → Congruence & Similarity → Transformations: Part 1

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			<ul style="list-style-type: none"> • Geometry → Congruence & Similarity → Transformations: Part 2 • Geometry → Congruence & Similarity → Transformations on the Computer: Part 1 • Geometry → Congruence & Similarity → Transformations on the Computer: Part 2 • Geometry → Congruence & Similarity → Transformations on the Computer: Part 3 • Geometry → Congruence & Similarity → Creating Quilt Patterns on the Computer • Geometry → Congruence & Similarity → Intro to Quilt Patterns on the Computer
23	Interpreting data	10	<ul style="list-style-type: none"> • Data Analysis & Probability → Graphs → Scatter Plot: Creating* • Data Analysis & Probability → Graphs → Scatter Plot: Decoding • Data Analysis & Probability → Graphs → Scatter Plot on the Computer
24	Adding fractions with the same denominator	6	<ul style="list-style-type: none"> • Number & Operations → Fractions → Fractions with the Same Denominator*
25	Converting measures	7	<ul style="list-style-type: none"> • Number & Operations → Proportion and Percent → Percent Conversion Practice
26	Distributive Property	8	<ul style="list-style-type: none"> • Algebra → Variables → Variables: Distributive Property • Algebra → Variables → Variables: Distributive Property on the Computer
27	Multiplication and Division	6, 8	<ul style="list-style-type: none"> • Number & Operations → Whole Numbers → Multiplication Patterns • Number & Operations → Whole Numbers → Multiplication Table • Number & Operations → Whole Numbers → Multiplication by 10, 100, 1000 • Number & Operations → Whole Numbers → Divisibility Rules
28	Congruence	9	<ul style="list-style-type: none"> • Geometry → Lines & Angles → Congruent Angles* • Geometry → Congruence & Similarity → Congruency* • Geometry → Congruence & Similarity → Charting Cotton Reel Quilt Patterns • Geometry → Congruence & Similarity → Charting Pinwheel Quilt Patterns • Geometry → Congruence & Similarity → Four Patch Quilt Patterns
29	Making Change	6	<ul style="list-style-type: none"> • Number & Operations → Whole Numbers → Sample Three Step Problem
30	Reading Graphs	10	<ul style="list-style-type: none"> • Data Analysis & Probability → Graphs → Pictogram, Bar & Line* • Data Analysis & Probability → Graphs → Line Graph on the Computer

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