

CPS Benchmark Assessment - Winter 2006 - Grade 5

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	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*
4	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
5	Equivalent fractions	6	<ul style="list-style-type: none"> • Number & Operations → Fractions → Fraction Visuals • Number & Operations → Fractions → Fraction Squares on the Computer* • Number & Operations → Fractions → Fraction Design: Explorations on the Computer
6	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*
7	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

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

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			<p>Part 1</p> <ul style="list-style-type: none"> • Geometry → Three-Dimensional Shapes → Polyhedra Nets on the Computer <p>Part 2</p>
8	Adding decimals with visual	6	<ul style="list-style-type: none"> • Number & Operations → Decimals → Place Value: Part 2
9	Scale	7	<ul style="list-style-type: none"> • Measurement → Scale → Scale: Drawing* • Measurement → Scale → Scale: Perspective • Measurement → Scale → Scale: Vocabulary
10	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*
11	Percent/ Fraction Equivalence	6	<ul style="list-style-type: none"> • Number & Operations → Proportion & Percent → Countdown Activity: Equivalence of Fractions, Decimals & Percent • Number & Operations → Proportion & Percent → Fractions, Decimals & Percents on the Computer: Part 1 • Number & Operations → Proportion & Percent → Fractions, Decimals & Percents on the Computer: Part 2 • Number & Operations → Proportion & Percent → Fractions, Decimals, Percents Pictures on the Computer
12	Decomposition of rectangles	7	<ul style="list-style-type: none"> • Measurement → Area & Perimeter → Formula: Area of a Triangle* • Measurement → Area & Perimeter → Area of a Triangle on the Computer
13	Mean	10	<ul style="list-style-type: none"> • Data Analysis & Probability → Statistics → Vocabulary Mean* • Data Analysis & Probability → Statistics → Mean* • Data Analysis & Probability → Statistics → Mean: Part 2 • Data Analysis & Probability → Statistics → A Mean Card Game • Data Analysis & Probability → Statistics → A Mean Word Problem*
14	Simple word problems	6	<ul style="list-style-type: none"> • Number & Operations → Whole Numbers → Computation Vocabulary • Number & Operations → Whole Numbers → Word Problems & Comparisons
15	Algebraic expressions	8	<ul style="list-style-type: none"> • Algebra → Variables → Countdown Challenge: The Language of Algebra* • Algebra → Variables → Translating English to Algebra
16	Similar figures	9	<ul style="list-style-type: none"> • Geometry → Congruence & Similarity → Similar Figures: Vocabulary • Geometry → Congruence & Similarity → Similar Figures: Concept Development

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			<ul style="list-style-type: none"> • Geometry → Congruence & Similarity → Similar Figures: Explanation • Geometry → Congruence & Similarity → Similar Figures: Illustrated • Geometry → Congruence & Similarity → Similar Figures: Proof
17	Probability	10	<ul style="list-style-type: none"> • Data Analysis & Probability → Probability → Probability Using Pictures*
18	Prisms and Pyramids	7	<ul style="list-style-type: none"> • Measurement → Solids → Volume: Cylinders & Prisms* • Measurement → Solids → Volume of a Pyramid
19	Prime Factors	6	<ul style="list-style-type: none"> • Number & Operations → Number Theory → Sieve of Eratosthenes: Part 1* • Number & Operations → Number Theory → Sieve of Eratosthenes: Part 2 • Number & Operations → Number Theory → Sieve of Eratosthenes on the Computer: Part 1 • Number & Operations → Number Theory → Sieve of Eratosthenes on the Computer: Part 2 • Number & Operations → Number Theory → Prime Number Definition • Number & Operations → Number Theory → Prime Factorization* • Number & Operations → Number Theory → Prime Number Graphics* • Number & Operations → Number Theory → Prime Numbers on the Computer
20	Area of a Parallelogram	7	<ul style="list-style-type: none"> • Measurement → Area & Perimeter → Formula: Area of a Parallelogram*
21	Algebraic expressions	8	<ul style="list-style-type: none"> • Algebra → Variables → Countdown Challenge: The Language of Algebra* • Algebra → Variables → Translating English to Algebra
22	Fundamental Counting Principle	6	<ul style="list-style-type: none"> • Number & Operations → Number Theory → Fundamental Counting Principle on the Computer: Graphics 1 • Number & Operations → Number Theory → FCP on the Computer: Graphics 2 • Number & Operations → Number Theory → FCP: Part 1* • Number & Operations → Number Theory → FCP: Part 2 • Number & Operations → Number Theory → Countdown Activity: FCP* • Number & Operations → Number Theory → FCP with Playing Cards • Number & Operations → Number Theory → FCP with Telephone Numbers • Number & Operations → Fractions → Fractions with the Same Denominator*
23	Adding Fractions	6	<i>No movies available at this time.</i>
24	Simple Word Problems		<ul style="list-style-type: none"> • Number & Operations → Whole Numbers → Word Problems & Comparisons

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25	Simple Word Problems		<ul style="list-style-type: none"> • Number & Operations → Whole Numbers → Word Problems & Comparisons
26	Circle Vocabulary	9	<ul style="list-style-type: none"> • Geometry → Two-Dimensional Shapes → Circle Vocabulary* • Geometry → Two-Dimensional Shapes → Defining a Circle
27	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
28	Pictogram	10	<ul style="list-style-type: none"> • Data Analysis & Probability → Graphs → Pictogram, Bar & Line*
29	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
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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