**Archived Information** 

## Washington DC February 6, 2003

#### William H. Schmidt

## Percent Passing Item at Each Grade

Y

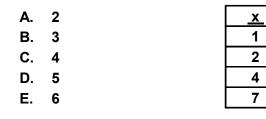
1

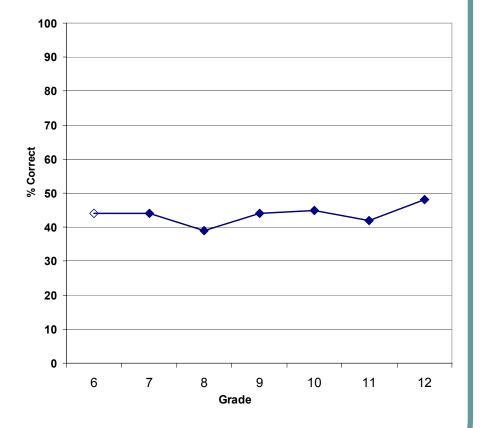
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7

13

The table represents a [linear] relation between x and y. What is the missing number in the table?





# Coherent Curriculum – A+ Countries

Торіс	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8
Whole Number Meaning	i	i	i	i	i			
Whole Number Operations	j	i	i	i	i			
Measurement Units	i	i	i	i	i	i	i	
Common Fractions	J		i	i	i	i	. ,	
Equations & Formulas			i	i	i	i	i	i
Data Representation & Analysis			i	i	i	i		i
2-D Geometry: Basics			j	i	i	i	i	i
Polygons & Circles			J	i	i	i	i	i
Perimeter, Area & Volume				i	i	i	i	i
Rounding & Significant Figures				i	i	, in the second se	5	Ť
Estimating Computations				i	i	i		
Properties of Whole Number Operations				i	i			
Estimating Quantity & Size				i	i			
Decimal Fractions				i	i	i		
Relationship of Common & Decimal Fractions				i	i	i		
Properties of Common & Decimal Fractions				č	i	i		
Percentages					i	i		
Proportionality Concepts					i	i	i	i
Proportionality Problems					i	i	i	i
2-D Coordinate Geometry					i	i	i	i
Geometry: Transformations					, e	i	i	i
Negative Numbers, Integers & Their Properties						i	i	, in the second
Number Theory						, in the second	i	i
Exponents, Roots & Radicals							i	i
Exponents & Orders of Magnitude							j	j
Measurement Estimation & Errors							i	
Constructions w/ Straightedge & Compass							j	j
3-D Geometry							j	j
Congruence & Similarity								Li
Rational Numbers & Their Properties								j
Patterns, Relations & Functions								j
Slope & Trigonometry								i

## States Curriculum – A+ Template

State A		State F		State K		State P		State U		State T				
Topics	G1 G2 G3 G4 G3 G6 G7 G8	Topics	61 62 63 64 63 64 67 68	Topics	G1 G2 G3 G4 G5 G6 G7 G8	Topics	GI G2 G3 G4 G3 G6 G7 G8	Topics	61 62 63 64 65 66 67 68	Topics	GI G2 G3 G4 G3 G6			
hole Number Meaning		Whole Number Meaning		Whole Number Meaning	• • • • •	Whole Number Meaning		Whole Number Meaning	• • • •	Whole Number Meaning				
hole Number Operations		Whole Number Operations		Whole Number Operations		Whole Number Operations		Whole Number Operations		Whole Number Operations				
leasurement Units		Measurement Units		Measurement Units		Measurement Units		Measurement Units		Measurement Units				
oramon Fractions	• • • • •	Common Fractions		Common Fractions		Common Fractions		Common Fractions		Common Fractions				
iquations & Formulas		Equations & Formulas	• • • •	Equations & Formulas		Equations & Formulas		Equations & Formulas		Equations & Formulas				
Data Representation & Analysis		Data Representation & Analysis		Data Representation & Analysis		Data Representation & Analysis		Data Representation & Analysis		Data Representation & Analysis				
2-D Geometry: Basics		2-D Geometry: Basics	• • • •	2-D Geometry: Basics		2-D Geometry: Basics		2-D Geometry: Basics		2-D Geometry: Basics				
Polygons & Circles		Polygons & Circles	• • • • • • • •	Polygons & Circles		Polygons & Circles		Polygons & Circles		Polygons & Circles				
Perimeter, Area & Volume		Perimeter, Area & Volume	• • • •	Perimeter, Area & Volume		Perimeter, Area & Volume		Perimeter, Area & Volume		Perimeter, Area & Volume				
Rounding & Significant Figures		Rounding & Significant Figures		Rounding & Significant Figures		Roanding & Significant Figures		Roanding & Significant Figures	• • • •	Roanding & Significant Figures	• •			
Estimating Computations		Estimating Computations		Estimating Computations		Estimating Computations	• • • • • • • •	Estimating Computations	• • • •	Estimating Computations				
Properties of Whole Number Operations		Properties of Whole Number Operations		Properties of Whole Number Operations		Properties of Whole Number Operations	• • • • • •	Properties of Whole Number Operations		Properties of Whole Number Operations				
Estimating Quantity & Size		Estimating Quantity & Size	• • • • • • • •	Estimating Quantity & Size		Estimating Quantity & Size	• • • • • • •	Estimating Quantity & Size		Estimating Quantity & Size				
Decimal Fractions	• • • • •	Decimal Fractions	• • • • • • • •	Decimal Fractions	• • • • • •	Decimal Fractions	• • • • • • • •	Decimal Fractions		Decimal Fractions				
Relationship of Common & Decimal Fractions	• • • • •	Relationship of Common & Decimal Fractions	• • • •	Relationship of Common & Decimal Fractions		Relationship of Common & Decimal Fractions	• • • • • • •	Relationship of Common & Decimal Fractions		Relationship of Common & Decimal Fractions				
Properties of Common & Decimal Fractions	• • • • •	Properties of Common & Decimal Fractions		Properties of Common & Decimal Fractions		Properties of Common & Decimal Fractions		Properties of Common & Decimal Fractions		Properties of Common & Decimal Fractions				
Percentages	• • • • •	Percentages	• • • •	Percentages		Percentages	• • •	Percentages		Percentages	••			
Proportionality Concepts	• • •	Proportionality Concepts	• • • •	Proportionality Concepts		Propertionality Concepts		Proportionality Concepts	• • • •	Propertionality Concepts	• •			
Proportionality Problems		Proportionality Problems	• • • •	Proportionality Problems	• • •	Propertionality Problems	• • • • •	Proportionality Problems	• • • •	Proportionality Problems	• •			
2-D Coordinate Geometry		2-D Coordinate Geometry	• • • • • • • •	2-D Coordinate Geometry	• • • • • •	2-D Coordinate Geometry	• • • • •	2-D Coordinate Geometry		2-D Coordinate Geometry				
Geometry: Transformations	• • • • • • • •	Geometry: Transformations	• • • • • • • • •	Geometry: Transformations		Geometry: Transformations		Geometry: Transformations		Geometry: Transformations				
Negative Numbers, Integers & Their Properties	• • •	Negative Numbers, Integers & Their Properties	• • • •	Negative Numbers, Integers & Their Properties	•• •••	Negative Numbers, Integers & Their Properties	• • •	Negative Numbers, Integers & Their Properties		Negative Numbers, Integers & Their Properties	••••			
Number Theory	• • • • • • • •	Number Theory		Number Theory	• • •	Number Theory	• • • • • • •	Number Theory		Number Theory				
Exponents, Roots & Radicals		Exponents, Roots & Radicals	• • • • • • • •	Exponents, Roots & Radicals	:::	Exponents, Roots & Radicals	• • • • • • • •	Exponents, Roots & Radicals	::::	Exponents, Roots & Radicals	::			
Exponents & Orders of Magnitude		Exponents & Orders of Magnitude		Exponents & Orders of Magnitude		Exponents & Orders of Magnitude		Exponents & Orders of Magnitude		Exponents & Orders of Magnitude				
Measurement Estimation & Errors		Measurement Estimation & Errors	•••••	Measurement Estimation & Errors		Measurement Estimation & Errors		Measurement Estimation & Errors		Measurement Estimation & Errors				
Constructions w/ Straightedge & Compass		Constructions w/ Straightedge & Compass		Constructions w/ Straightedge & Compass		Constructions w/ Straightedge & Compass		Constructions w/ Straightedge & Compass		Constructions w/ Straightedge & Compass				
3-D Geometry		3-D Geometry		3-D Geometry		3-D Geometry		3-D Geometry		3-D Geometry				
Congruence & Similarity		Congruence & Similarity		Congruence & Similarity		Congruence & Similarity		Congruence & Similarity		Congruence & Similarity				
Rational Numbers & Their Properties		Rational Numbers & Their Properties		Rational Numbers & Their Properties		Rational Numbers & Their Properties		Rational Numbers & Their Properties		Rational Numbers & Their Properties				
Patients, Relations & Functions		Patterns, Relations & Functions		Patterns, Relations & Functions		Patterns, Relations & Functions		Patterns, Relations & Functions		Patterns, Relations & Functions				
Slope & Trigonometry		Slope & Trigonometry		Slope & Trigonometry		Slope & Trigonometry	••	Slope & Trigonometry	• • • •	Slepe & Trigonometry				
State B		State G		State L		State O		State E						
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Whole Number Meaning	• • • • • • • •	Whole Number Meaning	• • • • • • • •	Whole Number Meaning	• • • • • • • • •	Whole Number Meaning	• • • • • • •	Whole Number Meaning	• • • • •					
Whole Number Operations		Whole Number Operations		Whole Number Stearing Whole Number Operations		Whole Number Meaning Whole Number Operations		Whole Number Operations						
Measurement Units		Measurement Units		Measurement Units		Measurement Units		Measurement Units						
Common Fractions		Common Fractions		Common Fractions		Common Fractions		Common Fractions						
Equations & Formulas		Loutions & Formalas		Equations & Formulas		Equations & Formulas		Equations & Formulas						
Data Representation & Analysis		Data Representation & Analysis		Data Representation & Analysis		Data Representation & Analysis		Data Representation & Analysis						
2-D Geometry: Basics		2-D Geometry: Basics		2-D Geometry: Basics		2-D Geometry: Basics		2-D Geometry: Basics						
Polygons & Circles		Polygons & Circles		Polynons & Circles		Polynons & Circles		Polynoms & Circles						
Perimeter. Area & Volume		Perimeter, Area & Volume		Perimeter, Area & Volume		Perimeter, Area & Volume		Perimeter, Area & Volume						
Rounding & Significant Figures		Rounding & Significant Figures		Rounding & Simificant Figures		Rounding & Significant Figures		Rounding & Significant Figures						
Estimating Computations		Estimating Computations		Estimating Computations		Estimating Computations		Estimating Computations						
Properties of Whole Number Operations		Properties of Whole Number Operations		Properties of Whole Number Operations		Properties of Whole Number Operations		Properties of Whole Number Operations						
Intimating Quantity & Size		Estimating Quantity & Size	••	Estimating Quantity & Size		Estimating Quantity & Size		Estimating Quantity & Size						
Decimal Fractions		Decimal Fractions		Decimal Fractions		Decimal Fractions		Decimal Fractions						
Relationship of Common & Decimal Fractions		Relationship of Common & Decimal Fractions		Relationship of Common & Decimal Fractions		Relationship of Common & Decimal Fractions		Relationship of Common & Decimal Fractions						
Properties of Common & Decimal Fractions		Properties of Common & Decimal Fractions		Properties of Common & Decimal Fractions		Properties of Common & Decimal Fractions		Properties of Common & Decimal Fractions						
Percentages		Percentages		Percentages		Percentages		Percentages						
		Propertionality Concepts	••	Proportionality Concepts		Propertionality Concepts		Proportionality Concepts	• •					
		Propertionality Problems		Proportionality Problems		Propertionality Problems		Proportionality Problems						
Proportionality Concepts Proportionality Problems		2-D Coordinate Geometry		2-D Coordinate Geometry		2-D Coordinate Geometry		2-D Coordinate Geometry	• • •					
Proportionality Problems		Geometry: Transformations		Geometry: Transformations		Geometry: Transformations		Geometry: Transformations	• • • •					
roportionality Problems -D Coordinate Geometry				Negative Numbers, Integers & Their Properties		Negative Numbers, Integers & Their Properties		Negative Numbers, Integers & Their Properties	• • •					
Proportionality Problems 2-D Coordinate Geometry Geometry: Transformations		Negative Numbers, Integers & Their Properties				Number Theory		Number Theory						
Proportionality Problems 2-D Coordinate Geometry Geometry: Transformations Negative Numbers, Integers & Their Properties		Negative Numbers, Integers & Their Properties Number Theory		Number Theory				Expensity, Roots & Radicals						
Proportionality Problems 2-D Condinate Geometry Geometry: Transformations Negative Numbers, Integers & Their Properties Number Theory				Number Theory Exponents, Roots & Radicals		Exponents, Roots & Radicals	•							
	::::	Number Theory				Exponents, Roots & Radicals Exponents & Orders of Magnitude	•	Exponents, Koots & Haescats Exponents & Orders of Magnitude						
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Propertionality Problems 2:-D Conditional Generatry Generatry: Transformations Organice Vambers, Integers & Their Properties Number Theory Exponents, Roots & Radicals Exponents, & Oxfere of Magnitude Massarement Existencies & Perrors		Number Theory Exponents, Roots & Radicals Exponents & Orders of Magninade Measurement Estimation & Errors		Exponents, Roots & Radicals Exponents, Rotes of Magnitude Measurement Estimation & Emors		Exponents & Orders of Magnitude Measurement Estimation & Errors		Exponents & Orders of Magnitude Measurement Estimation & Errors	•					
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Vaportianally Problems - D'Condutat Geometry Iorantry: Transformations logative Numbers, Integers & Their Properties Iasher Thooy Supmant & Ockers of Magnitud Researcement & Distance of Magnitud Researcement Estimation & Trees Ioransis de Constanting Ioransis and Ioransis and Ioransi Ioransis and Ioransis Ioransis and Ioransis Distances Ioransis Dista		Number Theory Exponents, Roets & Radicals Exponents & Ordens of Magnitude Measurement Estimation & Errers Constructions of Straightedge & Compass 3-D Geometry Congruence & Similarity		Exponents, Roots & Radiculs Exponents & Orders of Magnitude Measurement Estimation & Emors Contractions w/ Straightedge & Compass 3-D Geomstry Congruence & Similarity		Exponents & Orders of Magnitude Massurement Estimation & Errors Constructions w/ Straightedge & Compass 3-D Geometry Congreence & Similarity		Exponents & Onders of Magnitude Measurement Estimation & Emore Contractions w/ Straightedge & Compass 3-D Geometry Comparence & Similarity						

## States Curriculum – A+ Template

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								State H						State M			State R			State J			
Topics	GI G				G4	G7 G8	4 1	Topics					ié G7 G8	Topics	G1 G2 G3 G4 G8 G6		Topics	G1 G2 G3 G4		Topics	G1 G2 G3		
Whole Number Meaning	•••						1 1	Whole Number Meaning				•		Whole Number Meaning			Whole Number Meaning		• • • •	Whole Number Meaning			•••
Whole Number Operations	•••						1 1	Whole Number Operations				•		Whole Number Operations	• • • • • •		Whole Number Operations	• • • •		Whole Number Operations			•••
Measurement Units	•••						1 1	Measurement Units					•••	Measurement Units			Measurement Units			Measurement Units			• • •
Common Fractions	•••					• •	1 1	Common Fractions				•		Common Fractions			Common Fractions		• • • •	Common Fractions	•••		• • •
Equations & Formulas	•••				•		1 1	Equations & Formulas				•		Equations & Formulas		•••	Equations & Formulas		• • • •	Equations & Formulas			• • •
Data Representation & Analysis	•••	•	•	•		• •		Data Representation & Analysis	•			•		Data Representation & Analysis			Data Representation & Analysis		• • • •	Data Representation & Analysis			• • •
2-D Geometry: Basics						• •		2-D Geometry: Basics	•			•		2-D Geometry: Basics			2-D Geometry: Basics		• • • •	2-D Geometry: Basics			• • •
Polygons & Circles	•••	•				• •	1 1	Polygons & Circles	•			•		Polygons & Circles			Polygons & Circles		• • • •	Polygons & Circles			• • •
Perimeter, Area & Volume	•••	•	•	•		• •	1 1	Perimeter, Area & Volume				•		Perimeter, Anza & Volume			Perimeter, Area & Volume		• • • •	Perimeter, Area & Volume			• • •
Roanding & Significant Figures						• •	1 1	Rounding & Significant Figures				•		Rounding & Significant Figures			Rearding & Significant Figures			Roanding & Significant Figures	•••		
Estimating Computations	•••							Estimating Computations				•		Estimating Computations		•••	Estimating Computations		• • • •	Estimating Computations			
Properties of Whole Number Operations	•••							Properties of Whole Number Operations				•	•	Properties of Whole Number Operations			Properties of Whole Number Operations			Properties of Whole Number Operations		•••	• • •
Estimating Quantity & Size	•••	•	•	•		• •	1 1	Estimating Quantity & Size		•	•		• •	Estimating Quantity & Size	• •		Estimating Quantity & Size			Estimating Quantity & Size	•••		
Decimal Fractions					•	• •	1 1	Decimal Fractions				•		Decimal Fractions			Decimal Fractions			Decimal Fractions			• • •
Relationship of Common & Decimal Fractions							1 1	Relationship of Common & Decimal Fractions	•			•		Relationship of Common & Decimal Fractions	• •	•••	Relationship of Common & Decimal Fractions		• • • •	Relationship of Common & Decimal Fractions	•••		
Properties of Common & Decimal Fractions							1 1	Properties of Common & Decimal Fractions		•		•		Properties of Common & Decimal Fractions			Properties of Common & Decimal Fractions			Properties of Common & Decimal Fractions			
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Proportionality Concepts						• •		Proportionality Concepts			•	•		Proportionality Concepts	• •		Proportionality Concepts		• • • •	Proportionality Concepts			•••
Proportionality Problems	•••	•	•	٠		• •		Proportionality Problems					• • •	Proportionality Problems		• •	Proportionality Problems		• • • •	Proportionality Problems			• •
2-D Coordinate Geometry						• •	1	2-D Coordinate Geometry					• • •	2-D Coordinate Geometry			2-D Coordinate Geometry			2-D Coordinate Geometry			
Geometry: Transformations						• •	1	Geometry: Transformations	•	•			• • •	Geometry: Transformations		• •	Geometry: Transformations			Geometry: Transformations			•••
Negative Numbers, Integers & Their Properties						• •		Negative Numbers, Integers & Their Properties					• • •	Negative Numbers, Integers & Their Properties		• •	Negative Numbers, Integers & Their Properties			Negative Numbers, Integers & Their Properties			• • •
Number Theory	•••	•	•	•	•	• •	1 1	Number Theory			•	•	• • •	Number Theory		• •	Number Theory			Number Theory		• •	•
Exponents, Roots & Radicals					•	• •	1	Exponents, Roots & Radicals		•	•		• •	Exponents, Roots & Radicals		•	Exponents, Roots & Radicals			Exponents, Roots & Radicals		• •	
Exponents & Orders of Magnitude					•	• •	1 1	Economents & Orders of Magnitude			•		• •	Exponents & Orders of Magnitude		•	Exponents & Orders of Magnitude			Exponents & Orders of Magnitude			• •
Measurement Estimation & Errors					•	• •	1 1	Measurement Estimation & Errors		•	• •	•	• • •	Measurement Estimation & Errors			Measurement Estimation & Errors			Measurement Estimation & Errors		• •	
Constructions w/ Straightedge & Compass					•		1 1	Constructions w/ Straightedge & Compass		•	• •	•		Constructions w/ Straightedge & Compass		•	Constructions w/ Straightedge & Compass			Constructions w/ Straightedge & Compass		• •	
3-D Geometry	•••	•	•	•	•	• •	1 1	3-D Geometry	•	•	• •	•	• • •	3-D Geometry		• •	3-D Geometry			3-D Geometry		• •	
Construction & Similarity					•		1 1	Construence & Similarity	•		•			Congragues & Similarity			Construence & Similarity			Construction & Similarity		• •	
Rational Numbers & Their Properties					•		1 1	Rational Numbers & Their Properties			•			Rational Numbers & Their Properties		• •	Rational Numbers & Their Properties			Rational Numbers & Their Properties			• •
Patterns, Relations & Functions		•	•		•			Patterns Relations & Functions	•					Patterny Relations & Functions			Patterns, Relations & Functions			Patterns Relations & Functions		• •	
Slope & Trigonometry								Slope & Trigonometry					•	Slope & Trigonometry			Slope & Trigonometry			Slope & Trigonometry			
State D								State I						State N			State S			State O			
Topics	G1 G3							Topics	GI				16 G7 G8	Topics	61 62 63 64 68 66	G7 G8	Topics	G1 G2 G3 G4	C5 C6 C7 C8	Tenics		C1 C	3 66 67
Whole Number Meaning																							
Whole Number Operations								Whole Number Meaning	•					Whole Number Meaning			Whole Number Meaning			Whole Number Meaning	• • •	• •	
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Whose Number Operations Measurement Units	• •	•	•	•	•					•	• •									Whole Number Meaning	:::	::	
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Measurement Units Common Fractisons Equations & Formulas Data Representation & Analysis 2-D Geometry: Basics					•			Whole Namber Operations Measurement Units Common Practices Equations & Formulas Data Representation & Analysis 2-D Geometry: Basics						Whole Number Operations Measurement Units Common Fractions Equations & Formulas Datas Representations & Analysis 2-D Geometry: Basics			Whele Namber Operations Measurement Units Common Fractions Equations & Formulas Data Representation & Analysis 2-D Geometry: Basics			Whole Number Meaning Whole Number Operations Measurement Units Coremon Fractions Equations & Formulas Data Representations & Analysis 2-D Generatry: Basics			
Measurement Units Common Fractions Equations & Formulas Data Representation & Analysis								Whole Number Operations Measurement Units Common Practions Equations & Formulas Data Representation & Analysis						Whole Number Oparations Measurement Units Common Fractions Equations & Formulas Educations & Analysis			Whole Number Operations Measurement Units Common Fractions Equations & Formulas Data Representation & Analysis			Whole Number Meaning Whole Number Operations Measurement Units Common Fractions Equations A Formulas Data Representation & Analysis			
Massarement Units Common Practicous Equations & Formulas Data Representation & Analysis 2-D Geometry: Basica Polygons & Circles					•			Whole Number Operations Measurement Units Common Practicions Tipations & Formalas Data Representation & Analysis 2-D Geometry: Basics Polygene & Cricles						Whole Number Operations Measurement Units Common Particins Equations & Formalas Data Representation & Analysis 2-D Geometry: Basics Polygens & Circles			Whele Number Operations Measurement Units Common Functions Equations & Formulas Data Representation & Analysis 3-D Geometry: Basics Polygona & Creckes			Whole Number Opentions Whole Number Opentions Measurement Utilis Control Practices Equations & Perendan Data Representation & Analysis 3-D Geometry: Basics Phylogen & Carlos &			
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#### Teachers Well-Prepared Academically to Teach 12 Basic Math Topics

Gra Lev		Degree	% of Teachers at Grade Level	% of Teachers with Each Degree Prepared to Teach All 12 Topics
		Math Major	8.8	50.0
3 &	4	Math Minor	9.7	9.0
		Non-Math	81.4	13.0
		Math Major	12.5	33.3
5		Math Minor	10.4	60.0
		Non-Math	77.1	13.5
		Math Major	27.0	80.0
6		Math Minor	16.2	66.7
		Non-Math	56.8	19.0
		Math Major	32.6	80.0
7	,	Math Minor	19.6	77.8
		Non-Math	47.8	22.7
		Math Major	31.3	86.7
8		Math Minor	12.5	83.3
		Non-Math	56.3	25.9
		Math Major	65.1	87.8
9 -	12	Math Minor	15.9	60.0
		Non-Math	19.0	33.3