

Math Foundations Problem Sets for MonumentalMath.com

Done ?	Title of Problem Set	Set #	1st	2nd	3rd	4th	5th	6th	7th or Pre-Alg	8th or Alg	Geom	Adv Alg	GED Test Prac.	ACT Prac.
	Numbers, Number Sense, Operations													
	Match Them, With Sums Through 10	1	x											
		2	x											
		3	x											
		4	x											
		5	x											
	Match Them, With Sums Through 12	1	x											
		2	x											
		3	x											
		4	x											
		5	x											
	Match Them, With Sums Through 18	1	x	x										
		2	x	x										
		3	x	x										
		4	x	x										
		5	x	x										
	Match Them, With Sums Through 20	1	x	x	x									
		2	x	x	x									
		3	x	x	x									
		4	x	x	x									
		5	x	x	x									
	Adding Doubles	1	x	x										
		2	x	x										
		3	x	x										
		4	x	x										
		5	x	x										
		6	x	x										
	Adding Doubles, Plus 1	1	x	x										
		2	x	x										
		3	x	x										
		4	x	x										
		5	x	x										
		6	x	x										

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	Numbers, Number Sense, Operations													
	Mental Math - Addition	1	x	x										
		2		x	x	x	x							
		3		x	x	x	x							
		4		x	x	x	x							
		5		x	x	x	x							
		6		x	x	x	x							
	Take It, Break It, Remake It	1		x	x	x	x						x	
		2		x	x	x	x						x	
		3		x	x	x	x						x	
		4		x	x	x	x						x	
		5			x	x	x						x	
		6			x	x	x						x	
	Something Is Missing	1			x	x	x							
		2			x	x	x							
		3			x	x	x							
		4			x	x	x							
		5			x	x	x							
		6			x	x	x							
	Real Life Math: Temperatures (-)	1		x	x	x	x							
		2		x	x	x	x							
	Adding, With Sums of 50	1		x	x	x								
		2		x	x	x								
		3		x	x	x								
		4		x	x	x								
		5		x	x	x								
		6		x	x	x								
	Adding, With Sums of 100	1		x	x	x								
		2		x	x	x								
		3		x	x	x								
		4		x	x	x								
		5		x	x	x								
		6		x	x	x								

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	Rounding Numbers														
	Round to the Nearest 10	1		X	X	X	X	X	X	X			X		
		2		X	X	X	X	X	X	X			X		
		3		X	X	X	X	X	X	X			X		
		4		X	X	X	X	X	X	X			X		
	Round to the Nearest 100	1		X	X	X	X	X	X	X			X		
		2			X	X	X	X	X	X			X		
		3			X	X	X	X	X	X			X		
		4			X	X	X	X	X	X			X		
	Round to the Nearest 1,000	1			X	X	X	X	X	X			X		
		2			X	X	X	X	X	X			X		
		3			X	X	X	X	X	X			X		
		4			X	X	X	X	X	X			X		
	Multiplying and/or Dividing														
	Multiplication Using Mental Math	1				X	X	X	X	X			X		
		2				X	X	X	X	X			X		
		3				X	X	X	X	X			X		
		4				X	X	X	X	X			X		
		5				X	X	X	X	X			X		
		6				X	X	X	X	X			X		
	Multiples of 2, 3 or 4	1			X	X	X	X	X	X					
		2			X	X	X	X	X	X					
	Multiple of 4 and 6	1			X	X	X	X	X	X					
		2			X	X	X	X	X	X					
	Multiples of 8 and 9	1			X	X	X	X	X	X					
		2			X	X	X	X	X	X					
	Real Life: Dances (+, x)	1				X	X	X	X						
		2				X	X	X	X						
	Real Life: Catering (+, x)	1				X	X	X	X						
		2				X	X	X	X						
	Real Life: Yearly Salary (x, ÷)	1				X	X	X	X	X			X		
		2				X	X	X	X	X			X		
		3					X	X	X	X			X		
		4					X	X	X	X			X		

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	Multiplying and/or Dividing													
	Tank of Gas, (Rounding, Division)	1						X	X	X			X	X
		2						X	X	X			X	X
	DERT ~ Distance Equals Rate * Time (x or ÷)	1					X	X	X	X			X	X
		2					X	X	X	X			X	X
		3					X	X	X	X			X	X
	Using the Distributive Property (x, + or -)	1					X	X	X	X			X	
		2					X	X	X	X			X	
		3					X	X	X	X			X	
	Divide and Double	1					X	X	X	X			X	
		2					X	X	X	X			X	
		3					X	X	X	X			X	
		4					X	X	X	X			X	
		5					X	X	X	X			X	
	Fraction Topics													
	The Factors Of...	1			X	X	X	X	X	X			X	
		2			X	X	X	X	X	X			X	
		3			X	X	X	X	X	X			X	
		4				X	X	X	X	X			X	
		5				X	X	X	X	X			X	
		6				X	X	X	X	X			X	
	Greatest Common Factor	1				X	X	X	X	X			X	
		2				X	X	X	X	X			X	
	Lowest Common Multiple	1				X	X	X	X	X			X	
		2				X	X	X	X	X			X	
		3				X	X	X	X	X			X	
	Prime Factorization	1					X	X	X	X			X	
		2					X	X	X	X			X	
		3					X	X	X	X			X	
		4					X	X	X	X			X	
		5					X	X	X	X			X	
		6					X	X	X	X			X	

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	Find the GCF, Using Prime Factorization	1						X	X	X				
		2						X	X	X				
		3						X	X	X				
		4						X	X	X				
	Find the LCM, Using Prime Factorization	1						X	X	X				
		2						X	X	X				
		3						X	X	X				
	Fractions													
	Fractions - Simplify Completely	1				X	X	X	X	X			X	
		2				X	X	X	X	X			X	
		3				X	X	X	X	X			X	
		4					X	X	X	X			X	
		5					X	X	X	X			X	
		6					X	X	X	X			X	
		7					X	X	X	X			X	
		8					X	X	X	X			X	
		9					X	X	X	X			X	
		10					X	X	X	X			X	
	Order Up	1					X	X	X	X			X	
		2					X	X	X	X			X	
		3					X	X	X	X			X	
		4					X	X	X	X			X	
		5					X	X	X	X			X	
		6					X	X	X	X			X	
	Addition of Fractions With Like Denominators	1				X	X	X	X	X			X	
		2				X	X	X	X	X			X	
		3				X	X	X	X	X			X	
		4				X	X	X	X	X			X	
		5					X	X	X	X			X	
		6					X	X	X	X			X	

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	Fractions														
	Addition of Fractions With Like or Unlike Denominators	1					X	X	X	X			X		
		2					X	X	X	X			X		
		3					X	X	X	X			X		
		4					X	X	X	X			X		
		5					X	X	X	X			X	X	
		6					X	X	X	X			X	X	
		7					X	X	X	X			X	X	
	Cut It In Half	1		X	X	X	X	X	X	X			X		
		2		X	X	X	X	X	X	X			X		
		3			X	X	X	X	X	X			X		
		4		X	X	X	X	X	X	X			X		
		5		X	X	X	X	X	X	X			X		
		6			X	X	X	X	X	X			X		
		7			X	X	X	X	X	X			X		
		8				X	X	X	X	X			X		
		9				X	X	X	X	X			X		
		10					X	X	X	X			X		
	Multiplication of Fractions	1					X	X	X	X			X	X	
		2					X	X	X	X			X	X	
		3					X	X	X	X			X	X	
		4					X	X	X	X			X	X	
		5					X	X	X	X			X	X	
		6						X	X	X			X	X	
	Multiplication With a Fraction - Be Clever!	1						X	X	X			X	X	
		2						X	X	X			X	X	
	P.O.P. - A Fractional Portion of a Portion	1						X	X	X			X	X	
		2						X	X	X			X	X	
		3						X	X	X			X	X	
	Close Enough! Finding a Fraction of a Number	1					X	X	X	X			X	X	
		2					X	X	X	X			X	X	
		3					X	X	X	X			X	X	
	Division of a Whole Number by a Fraction	1					X	X	X	X			X		
		2					X	X	X	X			X		

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	Mixed Numbers													
	Converting Mixed Numbers to Improper Fractions	1					X	X	X	X			X	
		2					X	X	X	X			X	
	Converting Improper Fractions to Mixed Numbers	1					X	X	X	X			X	
		2					X	X	X	X			X	
	Multiplication With a Mixed Number	1					X	X	X	X			X	
		2					X	X	X	X			X	
		3					X	X	X	X			X	
	Fractions, Decimals and Percent													
	Converting Common Fractions to Decimals	1					X	X	X	X			X	
		2					X	X	X	X			X	
		3					X	X	X	X			X	
		4					X	X	X	X			X	
		5					X	X	X	X			X	
		6					X	X	X	X			X	
		7					X	X	X	X			X	
		8					X	X	X	X			X	
		9					X	X	X	X			X	
		10					X	X	X	X			X	
	Converting Fractions to Decimals	1						X	X	X			X	
		2						X	X	X			X	
		3						X	X	X			X	
		4						X	X	X			X	
		5						X	X	X			X	
		6						X	X	X			X	
		7						X	X	X			X	
		8						X	X	X			X	
		9						X	X	X			X	
		10						X	X	X			X	

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	Converting Fractions to Percents	1						X	X	X			X	X
		2						X	X	X			X	X
		3						X	X	X			X	X
		4						X	X	X			X	X
		5						X	X	X			X	X
		6						X	X	X			X	X
	Percent of a Number													
	Find 10% or 20% of a Number	1						X	X	X			X	X
		2						X	X	X			X	X
		3						X	X	X			X	X
		4						X	X	X			X	X
	Find 25% or 50% or 75% of a Number	1						X	X	X			X	X
		2						X	X	X			X	X
		3						X	X	X			X	X
		4						X	X	X			X	X
	Find a Percent of a Number	1						X	X	X			X	X
		2						X	X	X			X	X
		3						X	X	X			X	X
		4						X	X	X			X	X
	Find a Percent, Larger Than 100%, of a Number	1						X	X	X			X	X
		2						X	X	X			X	X
	Close Enough! Finding a Percent of a Number	1						X	X	X			X	X
		2						X	X	X			X	X
		3						X	X	X			X	X
		4						X	X	X			X	X
	This Is What Percent of That?	1						X	X	X			X	X
		2						X	X	X			X	X
	Real Life: Selling a Home (+, -, x, %)	1						X	X	X			X	
		2						X	X	X			X	
	Real Life: Commissions, (x, %)	1						X	X	X			X	
		2						X	X	X			X	

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	Dealing With Data													
	Find the Mean	1						X	X	X			X	
		2						X	X	X			X	
	Find the Median	1						X	X	X			X	
		2						X	X	X			X	
	Find the Mode	1						X	X	X			X	
		2						X	X	X			X	
	Measurement													
	How Tall Is That? (ft. & in., x or ÷)	1				X	X	X	X	X			X	
		2				X	X	X	X	X			X	
		3				X	X	X	X	X			X	
		4				X	X	X	X	X			X	
		5				X	X	X	X	X			X	
	Time Conversions	1				X	X	X	X	X			X	
		2				X	X	X	X	X			X	
	Metric Conversions - Length	1					X	X	X	X			X	
		2					X	X	X	X			X	
		3					X	X	X	X			X	
	Weight Conversions - Customary Units	1						X	X	X			X	
		2						X	X	X			X	
	Volume Conversions - Customary Units	1					X	X	X	X			X	
		2					X	X	X	X			X	
		3					X	X	X	X			X	
	Dealing With Decimals													
	Rounding Decimals to the Nearest Tenth	1				X	X	X	X	X			X	
		2				X	X	X	X	X			X	
		3				X	X	X	X	X			X	
		4				X	X	X	X	X			X	
	Rounding Decimals to the Nearest Hundredth	1				X	X	X	X	X			X	
		2				X	X	X	X	X			X	
		3				X	X	X	X	X			X	
		4				X	X	X	X	X			X	

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	Decimal Addition, With Sums of 1	1					X	X	X	X			X			
		2					X	X	X	X			X			
		3					X	X	X	X			X			
		4					X	X	X	X			X			
	Decimal Addition, With Sums of 10	1						X	X	X			X			
		2						X	X	X			X			
		3						X	X	X			X			
		4						X	X	X			X			
	Using Formulas															
	Real Life: Distance Problems (x, ÷)	1					X	X	X	X			X			
		2					X	X	X	X			X			
		3					X	X	X	X			X			
	Real Life: $I = p * r * t$, (x, ÷, %)	1						X	X	X			X			
		2						X	X	X			X			
	Dealing With Negatives															
	Do the Math - Adding Integers	1						X	X	X			X	X		
		2						X	X	X			X	X		
		3						X	X	X			X	X		
		4						X	X	X			X	X		
		5						X	X	X			X	X		
		6						X	X	X			X	X		
		7						X	X	X			X	X		
		8						X	X	X			X	X		
		9						X	X	X			X	X		
	Subtracting With Negative Integers	1						X	X	X			X	X		
		2						X	X	X			X	X		
	Maybe It's Negative	1						X	X	X			X	X		
		2						X	X	X			X	X		
	Find a Fraction of a Negative Number	1							X	X			X	X		
		2							X	X			X	X		
		3							X	X			X	X		

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	Order of Operations													
	Order of Operations	1							X	X			X	X
		2							X	X			X	X
		3							X	X			X	X
		4							X	X			X	X
	Just These.... Order of Operations	1							X	X				
		2							X	X				
	Absolute Values													
	Working With Absolute Values	1							X	X			X	X
		2							X	X			X	X
	Exponents													
	Exponents	1						X	X	X		X	X	X
		2						X	X	X		X	X	X
		3							X	X		X	X	X
		4							X	X		X	X	X
		5							X	X		X	X	X
		6							X	X		X	X	X
	Squares and Square Roots													
	Between Which Two Positive Consecutive Integers	1							X	X	X	X	X	X
		2							X	X	X	X	X	X
	Sums of Square Roots	1							X	X	X	X	X	X
		2							X	X	X	X	X	X
		3							X	X	X	X	X	X
	Sums and Differences of Square Roots	1							X	X	X	X	X	X
		2							X	X	X	X	X	X