



Moving Straight Ahead: Linear Relationships with Expressions and Equations

 Linear Relationships  Algebraic expressions and equations	Introduction <i>Setting the Scene</i>	Exploration <i>Mucking About</i>	Analysis <i>Going Deeper</i>	Synthesis <i>Looking Across</i>	Abstraction <i>Going Beyond</i>
Investigation 1: Walking Rates					
1.1 Walking Marathons: Finding and Using Rates	1.1				
	1.1	1.1			
1.2 Walking Rates and Linear Relationships: Tables, Graphs, and	1.2				
		1.2			
1.3 Raising Money: Using Linear Relationships to Solve Equations		1.3			
			1.3		
1.4 Walkathon Money: Expressing Linear Relationships and Proportionality		1.4			
			1.4		
Mathematical Reflection		MR			
			MR		
Investigation 2: Using Tables, Graphs and Equations to Explore Linear Relationships					
2.1 Henri and Emile's Race: Developing Strategies to Find a Solution		2.1	2.1		
			2.1		
2.2 Comparing Cost Relationships: Finding Solutions to Equations			2.2		
			2.2		
2.3 Connecting Tables, Graphs, and Equations to Solutions			2.3		
			2.3		
Mathematical Reflection			MR		
			MR		
Investigation 3: Solving Equations Symbolically					
3.1 Mystery Pouches: Exploring Equality		3.1			
		3.1			
3.2 From Pouches to Variables: Writing and Solving Equations			3.2		
		3.2			
3.3 Solving Linear Equations			3.3		
		3.3	3.3		
3.4 The Point of Intersection: Using Equations and Inequalities			3.4		
			3.4		
Mathematical Reflection			MR		
			MR		
Investigation 4: Connecting Rates and Ratios					
4.1 Climbing Stairs: Using the Ratio of Rise and Run			4.1		
			4.1		
4.2 The Constant of Proportionality			4.2	4.2	
			4.2		
4.3 Putting It All Together				4.3	
				4.3	
Mathematical Reflection				MR	
				MR	