



Didactical Document

Theme-Based Trail about Multiple-step Word Problems (Grades 3-4)

Trail Code: 269924

Title	Grade	Main concepts	Students learn	Data to collect	Objects	MCM References
Length <i>The Horizontal Thrust Test</i>	3	<ul style="list-style-type: none"> - Length - Length unit measures - Addition and subtraction - Decimal representations 	<ul style="list-style-type: none"> - Use length unit measures - Solve multiple-steps word problems involving length 	-Measure a length	Football field	0843152
Length <i>How many are left standing?</i>	3	<ul style="list-style-type: none"> - Length - Length unit measures - Subtraction, multiplication and division - Decimal representations 	<ul style="list-style-type: none"> - Use length unit measures - Solve multiple-steps word problems involving length 	-Measure a length	Bench	5743149
Money <i>Sara's snack</i>	3	<ul style="list-style-type: none"> - Money - Subtraction, multiplication and division - Decimal representations 	<ul style="list-style-type: none"> - Relate euros and cents - Solve multiple-steps word problems involving money 	- Consult prices	Electronic panel	1443154
Numeric relations	3	<ul style="list-style-type: none"> - Numeric relations - Fractions 	- Use numeric relations	- Number of elements in a set	Stairs	6843210

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<i>How do I win more chocolates?</i>		<ul style="list-style-type: none"> - Addition, subtraction, multiplication and division - Counting 	<ul style="list-style-type: none"> - Solve multiple-steps word problems involving numbers and counting - Make decisions 			
Length/Area <i>The table towel for the party</i> <i>The remaining cloth (subtask)</i>	4	<ul style="list-style-type: none"> - Length - Length unit measures - Addition, subtraction, multiplication and division - Decimal representations - Area - Area unit measures - Area of rectangles 	<ul style="list-style-type: none"> - Use length unit measures - Use the area of the rectangle - Solve multiple-steps word problems involving length and area - Make decisions 	-Measure a length	Table	1843209 2131
Money <i>Let's park the BIRAs</i>	4	<ul style="list-style-type: none"> - Money - Addition and multiplication - Decimal representations 	<ul style="list-style-type: none"> - Relate euros and cents - Solve multiple-steps word problems involving money 	- Number of elements in a set	Bicycle parking spots	7843150
Numeric relations <i>The park is full!</i>	4	<ul style="list-style-type: none"> - Numeric relations - Fractions - Addition, subtraction, multiplication and division 	<ul style="list-style-type: none"> - Use numeric relations - Solve multiple-steps word problems involving numbers with different representations 	- Number of elements in a set	Parking lot	0743153



Mass <i>The package</i>	4	<ul style="list-style-type: none"> - Mass - Mass unit measures - Conversions - Addition - Decimal representations 	<ul style="list-style-type: none"> - Use mass unit measures - Solve multiple-steps word problems involving mass 	-Measure a mass	Manipulative materials	5743207
Time <i>Broken clock</i>	4	<ul style="list-style-type: none"> - Time - Working Backwards - Subtraction 	<ul style="list-style-type: none"> - Relate hours and minutes - Solve multiple-steps word problems involving time 	- Consult time	Clock	3643151
Length <i>The placard</i>	4	<ul style="list-style-type: none"> - Length - Length unit measures - Subtraction, multiplication and division - Decimal representations 	<ul style="list-style-type: none"> - Use length unit measures - Solve multiple-steps word problems involving length 	-Measure a length	Placard	5943208

Notes:

The teacher should propose a trail with 7-8 tasks containing diversified concepts (**numeric relations, length, area, mass, money, time**). It is also important to present tasks with different cognitive levels (low; high) to motivate/challenge students.