

1 2 3... Cabri First year

Title of the notebook	Type			Contents
	Discover	Exercises	Test	
Numbers				
Always 10 !				Discovering and producing additive decompositions of number 10 on objects then completing additive equalities with a missing number.
The wheel of the 10				Practicing decomposing 10 as a sum of two numbers.
Complement to 10				Testing the ability to produce additive decompositions of number 10.
Rockets				Testing the mental computation of results of additions and subtractions, of a missing number in additive sentences with numbers less than 20.
Ladybird! 1				Gathering as many coloured sticky labels as spots of a ladybird without being able to put the labels on the spots.
Ladybird! 2				Same problems, but the labels and the ladybird cannot be seen simultaneously.
Ladybird! 3				Same problems, but the ladybird can be seen only at the beginning of the problem when the labels are not available.
Ladybird! 4				The collection of labels must be chosen among three collections, with successively the same conditions as in Ladybird 1, 2 and 3.
Ladybird! 5				Two problems in which the student must choose the number of labels among a large set of cards showing numbers smaller than 30.
Decompose				Exercises for practicing additive decompositions of numbers 5, 6, 7, 8 and 9.
The table of 2				Learning the product by 2 of the 10 first whole numbers.
Two times two				Testing the ability to compute the product by 2 of the 10 first whole numbers.
Garage #1				Problems of counting cars in the context of a car park, with direct manipulation of cars.
Garage #2				Additive problems in the same context of a car park with direct manipulation of cars.
Cabris at the fair				Additive and subtractive problems in the context of a merry-go-round.
My small toolbox				Introduction to tools like number slider, number line and calculator.
Geometry				
Cabri is grazing a piece				Recognising pieces of a jigsaw puzzle with a right angle corner: the aim is to foster the superimposition strategy against a purely visual one.
Max is sad!				Same problems with a larger number of pieces with a corner closer to a right angle.
The cube from all points of view				Various counting and computation exercises on cubes: sum of numbers of two dices, number of cubes in a group of cubes.
Am I always a cube ?				Testing the ability to recognise a cube against other prisms.
The parallelepiped				Recognising a right parallelepiped among other solid objects and counting cubes in a right parallelepiped.
Data handling				
Visit to the farm				Reading information from a table with rows and columns.

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Title of the notebook	Type			Contents
	Discover	Exercises	Test	
Numbers				
The table of 2	■			Learning the products by 2 of the 10 first whole numbers.
Two times two		■		Testing the ability to compute the product by 2 of the 10 first whole numbers.
Mission 100			■	Testing the ability to compute mentally the complement to 100 as a result of subtractions or additive sentences with a missing number.
That's the right amount 1		■		Practising how to obtain a specific number as a result of a sequence of additions and subtractions of given numbers.
That's the right amount 2			■	Testing the ability to obtain a specific number as result of a sequence of additions and subtractions of given numbers.
Memory and multiplication		■		Practising the mental computation of products of two numbers and training spatial memory.
Happy Birthday ! 1	■			Additive and subtractive problems with the help of concrete manipulable representations of candles.
Happy Birthday ! 2	■			Additive and subtractive problems with the help of concrete manipulable representations of candles.
Happy Birthday ! 3	■			Additive and subtractive problems without the help of concrete manipulable representations of candles.
Happy Birthday ! 4	■			Additive and subtractive problems without the help of concrete manipulable representations of candles.
My small toolbox		■		Introduction to tools like number slider, number line and calculator.
Geometry				
Cabri is grazing a piece	■			Recognising pieces of a jigsaw puzzle with a right angle corner: the aim is to foster a superimposition strategy against a purely visual one.
Max is sad!	■			Same type of problems.
A board of nails	■			Problems of constructing a missing point in the simulation of a board of nails as midpoint or intersecting point of lines or segments.
Reflection		■		Colouring reflected squares with respect to a vertical axis of a figure made of squares on a squared paper.
The right parallelepiped	■			Recognising a right parallelepiped among other solid objects and counting cubes in a parallelepiped.
Measurement				
Count in euros and cents		■		Give the right change with coins in euros and cents when the amount is given in euros and cents or only cents (conversion).
Data handling				
Double entry tables		■		Placing geometric shapes in a double entry table according to their colour, the number of sides, or the number of linear or curved sides.
The frog and the cabri 1	■			Moving on a grid by memorising the obstacles to avoid.
The frog and the cabri 2	■			Programming moves on a grid by memorising the obstacles to avoid.

1 2 3... Cabri Third year

Title of the notebook	Type			Contents
	Discover	Exercises	Test	
Numbers				
Memory and multiplication		■		Practising the mental computation of products of two numbers and training spatial memory.
That's the right amount 2			■	Testing the ability to obtain a specific number as a result of a sequence of additions and subtractions of given numbers.
Magic square		■		Completing magic squares with specific numbers (additions).
The broken calculator		■		Finding numbers as results of operations on a calculator with a reduced number of keys.
The club of the 0 and the 5			■	Testing the ability of computing mentally differences of 3 digit numbers ending with 0 or 5.
The hidden number			■	Testing the fast mental computation of the result of an operation on two numbers.
Units, tens, 100s, 1000s			■	Testing the ability to identify the digit of the units, of the tens, 100s and to distinguish it from the number of units, tens, 100s...
Add by tens, by 100s, ...		■		Practising mental computation of sums of numbers requiring identifying the digits of different units.
Magic crosses		■		Completing magic crosses with specific numbers (additions and subtractions).
Geometry				
Max is not lucky!	■			Recognising pieces of a jigsaw puzzle with a right angle corner: the aim is to foster a superimposition strategy against a purely visual one.
Tangram		■		Tangrams to reproduce: recognising the shapes is made more difficult when progressing in the exercises.
The hidden solid			■	Testing the ability to recognise a cube or a right parallelepiped among other solids such as a cylinder, pyramid, or sphere.
Mirror image			■	Testing the ability to reflect a figure on a squared paper.
A board of nails			■	A simulation of a board of nails - construct the missing midpoint or intersecting point of lines or segments.
Points, straight lines, segments	■			Introduction to the construction of segments, straight lines and points with dynamic geometry tools.
Measurement				
Count in euros and cents		■		Give the right change with coins in euros and cents when the amount is given in euros and cents or only cents (conversion).
Tell the time		■		Practising telling the time with analogue clocks, with and without numbers.
Set the clocks right		■		Practising setting a clock correctly with analogue clocks, with and without numbers.

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Title of the notebook	Type			Contents
	Discover	Exercises	Test	
Numbers				
Units, tens, 100s, 1000s				Testing the ability to identify the digit of the units, of the tens, 100s and to distinguish it from the number of units, tens, 100s...
Magic crosses				Completing magic crosses with given numbers (additions and subtractions).
The calculators of Professor Goodideas				Finding a number as a result of operations on whole and decimal numbers on a calculator with a reduced number of keys.
I fill in the holes				Practising to complete number sentences with additions bearing on 2 or 4 numbers with less than 5 digits.
Digits of large numbers				Practising identifying the digit of each unit and distinguishing it from the number of the same units for numbers with 4 digits.
I add large numbers				Practising mental computation of sums requiring identification of the digits of each unit.
Dominoes, fractions and decimal numbers				Play with dominoes requiring identifying equal numbers written as a fraction or the sum of a whole number and a fraction or as a decimal.
Geometry				
The hidden solid				Testing the ability to recognise a cube or a parallelepiped among other solids, such as a cylinder, pyramid, or sphere.
Points, straight lines, segments				Introduction to the construction of segments, straight lines and points with dynamic geometry tools.
A board of nails				A simulation of a board of nails - construct the missing midpoint or intersecting point of lines or segments.
Circles				Constructing circles with dynamic geometry tools and problem solving.
Polygons				Constructing polygons with dynamic geometry tools and identifying specific types of polygons.
Regular polygons				Constructing regular polygons with dynamic geometry tools and reproducing figures.
Quadrilaterals				Quadrilaterals, rectangle and square construction with dynamic geometry tools.
Reflection				Constructing the reflected image of a figure with dynamic geometry tools and identifying properties of a reflection.
Black boxes: squares and triangles				Reproducing figures with dynamic geometry tools.
Black boxes: squares and crosses				Reproducing figures with dynamic geometry tools.
Black boxes: squares and circles				Reproducing figures with dynamic geometry tools.
Where is hidden the cube? And the parallelepiped?				Testing the ability to recognise a cube, a parallelepiped and a prism among several solids.

1 2 3... Cabri Fifth year

Title of the notebook	Type			Contents
	Discover	Exercises	Test	
Numbers				
The calculators of professor Goodideas				Finding a number as result of operations on whole and decimal numbers on a calculator with a reduced number of keys.
Digits and decimal numbers				Practising identifying the digit of each unit and distinguishing it from the number of the same units for hundredths, tenths...
Dominoes and fractions				Play with dominoes requiring addition of fractions with the same denominator or to add a fraction and a whole number.
Set up the right products				Practising decomposition of a number into a product of numbers.
I add decimals				Practising calculation of the sum of decimals by identifying the digits of each unit.
Decimals for filling in the holes				Completing number sentences on decimal numbers requiring identifying the digit of each decimal unit.
Hundredths, tenths,...				Practising mental calculation of sums of numbers requiring identifying the digit of each unit.
The crack of multiplication 1				Testing the ability to decompose a number into a product of specific numbers (level 1).
The crack of multiplication 2				Testing the ability to decompose a number into a product of specific numbers (level 2).
Geometry				
Points, straight lines, segments				Introduction to the construction of segments, straight lines and points with dynamic geometry tools.
Circles				Constructing circles with dynamic geometry tools and problem solving.
Polygons				Constructing polygons with dynamic geometry tools and identifying specific types of polygons.
Regular polygons				Constructing regular polygons with dynamic geometry tools and reproducing figures.
Quadrilaterals				Constructing quadrilaterals, rectangle and square with dynamic geometry tools.
Reflection				Constructing the reflected image of a figure with dynamic geometry tools and identifying properties of a reflection.
Black boxes: squares and triangles				Reproducing figures with dynamic geometry tools.
Black boxes: squares and crosses				Reproducing figures with dynamic geometry tools.
Black boxes: squares and circles				Reproducing figures with dynamic geometry tools.
What if we went farther? Quadrilaterals				Constructing particular quadrilaterals by using their properties.
What if we went farther? Triangles				Constructing particular triangles by using their properties.
Where is hidden the cube? And the cylinder? ...				Testing the ability to recognise a cube, a parallelepiped, a prism and a cylinder among several solids.
Measurement				
The largest box				Using the formula for the volume of a right parallelepiped and becoming aware that the volume increases when the area of the base increases.
Data handling				
Proportionality				Calculating the missing value in a proportion.