Conceptual Learning Materials

Insights into Math Concepts

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Sample 4-5 Packet

- 1. *Thousands Green
- 2. Geometry Introduction
- 3. Money C
- 4. Time C
- 5. Fraction Match
- 6. Roman Numerals
- 7. Problem Solving D
- 8. *Mixed Practice D
- 9. *Fraction Concepts
- 10. **Decimal Cards
- 11. *Decimal Introduction
- 12. Rename
- 13. *Estimation
- 14. Advanced Numeration
- 15. Fraction Line Instructions
- 16. Order Fractions
- 17. Fraction Operations
- 18. More Fraction Operations
- 19. Inequalities
- 20. *Number Theory
- 21. Decimal Line Instructions
- 22. Order Decimals

4	5	6	7	8	www.conceptuallearning.com
				0.00	Thousands (green)
	Ű			250-2	Problem Solving C
			Ţ	U/38	Mixed Practice C
				5000	Geometry Introduction
					Money C
	П			100	Time C
	X		-	100	Fraction Match
					Roman Numerals
				000	Problem Solving D
				25.72 25.72	Mixed Practice D
				U/38	Fraction Concepts
					Decimal Introduction
					Rename
			1	70	Estimation
					Advanced Numeration
					Fraction Number Lines
					Sets (Cumulative)
					Order Fractions
					Fraction Operations
					More Fraction Operations
					Inequalities
					Number Theory
					Decimal Line & Labels
					Order Decimals
					Problem Solving E
					Mixed Practice E
					More Advanced Numeration
28.5					Decimal Fraction Equivalence
1					Percent
					Geometry Intermediate
					Advanced Decimals
					Advanced Geometry
70-					Intervals (Whole numbers)
700					Intervals (Positive reals)

Insights into Math Concepts focuses on concepts rather than on drill and calculations that are readily available from most educational suppliers. Typically, any classroom has students with a wide range of abilities and skill levels, so the levels include work that is on-level, reinforcement, and advanced for the respective grades. For example, the scope and sequence chart shows that "Roman Numerals" would be on-level for fourth grade and reinforcement for fifth grade.

Note that the materials come in a variety of formats. All taskcards are available in colorful reusable cardstock, reproducible blackline masters, or more cost-effective digital downloads. Exercises that are manipulated come in colorful cardstock that is to be laminated and cut. Most are also available as a reproducible blackline workpage format and digital workpage PDF downloads as well.

^{*}Actual free-response workpage

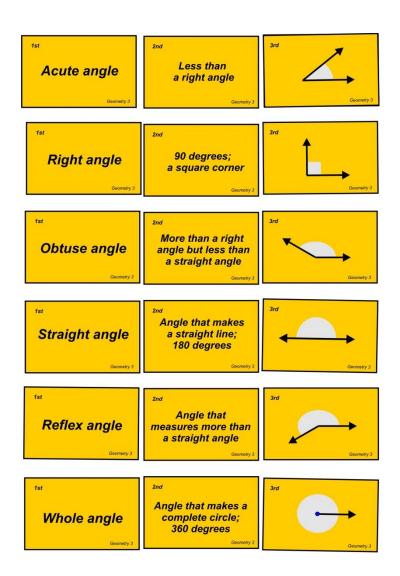
^{**}Manipulative for student use

Thousands (Green)

Exercise 25 of 25

	Name	Date
1)	Rounded to the nearest hund	Ired, 5,263 ≈
2)	Rounded to the nearest ten,	6,437 ≈
3)	Rounded to the nearest thous	sand, 3,747 ≈
4)	Rounded to the nearest thous	sand, 5,499 ≈
5)	Rounded to the nearest ten,	6,523 ≈
6)	Rounded to the nearest hund	lred, 7,567≈
7)	Rounded to the nearest ten,	9,347≈
8)	Rounded to the nearest thous	sand, 6,638≈
9)	Rounded to the nearest hund	lred, 2,122≈ 另
10)	Rounded to the nearest hund	lred, 8,500 ≈
11)	Rounded to the nearest thous	Ired, 8,500 ≈ Sand, 6,432 ≈ Sand, 8,998 ≈ Sand
12)	Rounded to the nearest ten, 8	8,998 ≈ % www.conceptuallearning.com

Geometry Introduction (3 of 15)

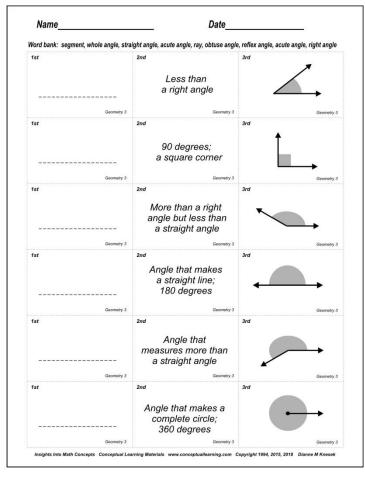


Reproducible Blackline or Digital PDF Download

Geometry Introduction reproducible blackline masters and digital PDF downloads are free-response workpages that correspond to the cardstock counterparts.

Cardstock version

Appropriate for grades 3, 4, and 5, Geometry Introduction matching cards cover a wide range of skills including undefined terms (point, line and ray, etc.), types of lines, angles, plane figures, polygons, triangles, quadrilaterals, perimeter, area, solid figures, and volume. The 15-exercise set also includes answer keys and organization labels for containers.



Money Match A, B, and C





































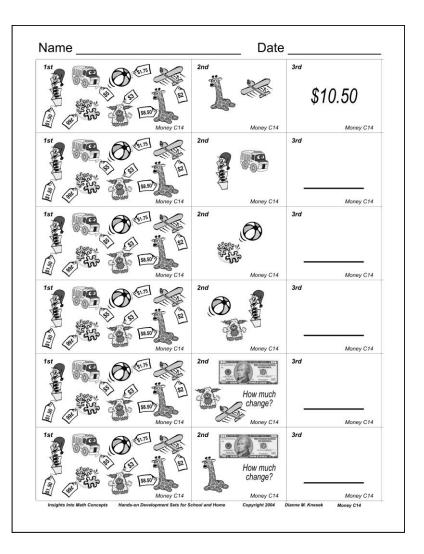
Reproducible Blackline or Digital PDF Download

Money Reproducible blackline masters are free-response workpages that correspond to the cardstock counterparts.

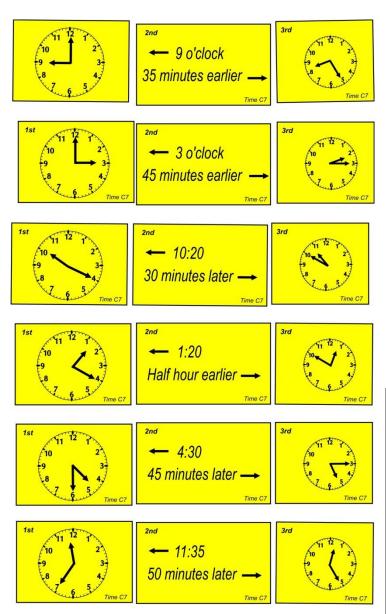
Digital PDF downloads will be available in fall of 2019.

Cardstock version

Money Match C is printed on ivory cardstock in black ink. Each level contains 15 incremented exercises, and the entre set includes all money concepts at the respective levels. The sets also include answer keys and organizational labels for containers.



Time Match A, B, and C

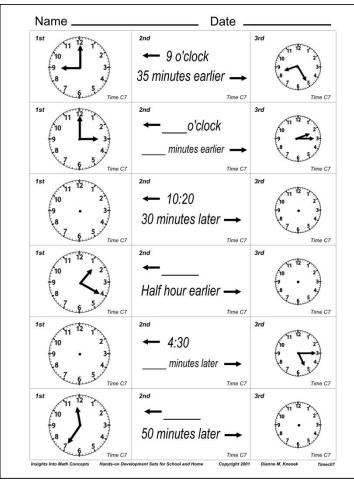


Reproducible Blackline or Digital PDF Download

Time reproducible blackline masters are free-response workpages that correspond to the cardstock counterparts. Digital PDF downloads will be available in fall of 2019.

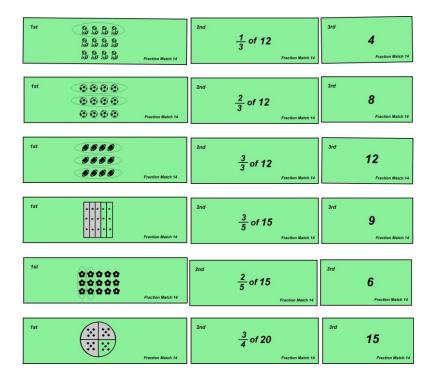
Cardstock version

Time C is printed on solar yellow cover stock in black ink. Each level contains 15 incremented exercises, and the entre set includes all time concepts at the respective levels. Specifically, Time C covers time to the minute, time intervals, and calendar work into previous and subsequent months. The sets also include answer keys and organizational labels for containers.

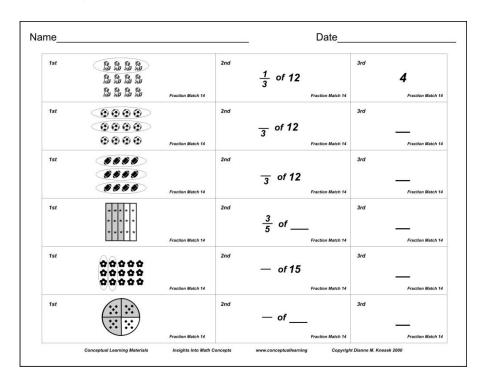


Fraction Match

Fraction Matching cards were created as preparation for more abstract fraction work. Despite previous work with fraction manipulatives, many children do not understand concepts such as improper fractions, equivalent fractions, fraction of a set, and fractions on a number line. Fraction Match addresses these concepts through pictures. The series includes 15 incremented exercises, answer keys, and organizational labels.

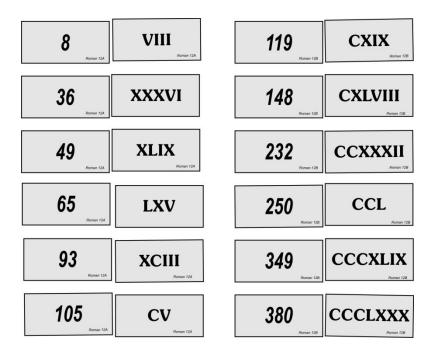


Fraction Match reproducible masters and digital downloads have the same problems as the matching cards, but come in a free-response worksheet format on which children record their own answers.



Roman Numerals Exercise 8 of 15

Roman Numerals is an incremented 15-exercise set that covers Roman Numeral—Arabic values up to 3000. Early exercises emphasize basic equivalencies as well as the similarly with base 10 expanded form. For example 139 = 100 + 30 + 9 Arabic and C + XXX + IX Roman (CXXXIX).



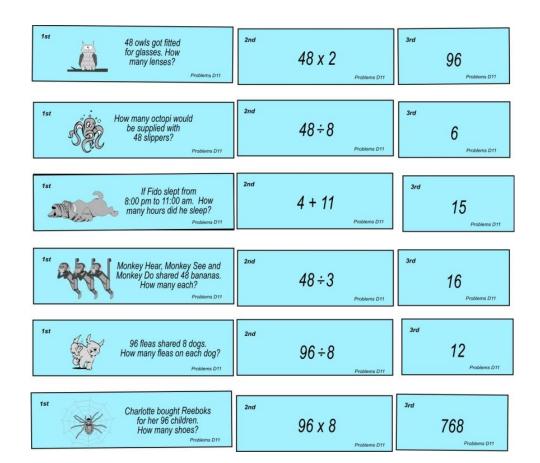
Roman Numeral reproducible masters have the same problems as the matching cards, but come in a free-response worksheet format which includes both Arabic to Roman and Roman to Arabic. Digital PDF download worksheets will be available in fall of 2019.

Name		Date
Write the Roman numeral tha	t corresponds with the standard nu	meral given. The first one is done for you.
	8	VIII
	36	
	49	
	65	
	93	
	105	
	119	
	148	
	232	
	250	
	349	
	380	

Name		Date	B12
Write the Arabic (standard) n	umeral that corresponds with the Roman num	neral given. The first one is done for ye	ou.
	VIII	0	
	VIII	8	
	XXXVI		
	XLIX		
	LXV		
	XCIII		
	CV		
	CXIX		
	CAIA		
	CXLVIII		
	CALVIII		
	COVVVII		
	CCXXXII		
	CCL		
	CCCXLIX		
	CCCLXXX		

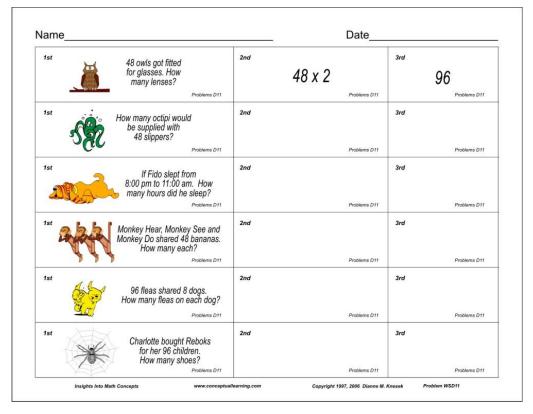
Problem Solving Match

Levels A, B, C, D, and E



Problem Solving Matching cards are printed with black ink on colored cardstock. The "1st card" can be placed in any order, but the "2nd" and "3rd" cards must be placed with the appropriate question cards. Level D in printed on blue cardstock which is to be laminated and cut. Another option is to use the 1st card as a free-response exercise and the remaining cards as a control. Problem Solving D has 20 exercises, an answer key, and organization labels for containers.

Problem Solving reproducible masters come in a free-response worksheet format on which children record their own answers. Reproducible blacklines come in black ink on white paper, but digital downloads which will be available in fall 2019 may be printed either in black and white or in color depending on the user's printer.



Mixed Practice A, B, C, D, & E

Incremental overview of all level-appropriate skills. Great as diagnostic assessment or as cumulative review.

Name_____

1) 2 hundredths _____ fraction decimal

2) Eight and 2 hundredths _____ decimal

3) Estimate the product of 82 and 69 _____

4) How many feet in 48 inches? _____

5) + 97 = 341

6) 3 weeks and 6 days = _____ days

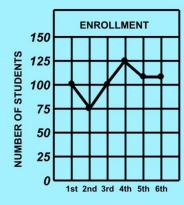
7) Greatest common factor of 12 and 15 _____

8) $\frac{1}{4}$ of 9 =

10) 21 x 30

$$^{11)}$$
 $4\frac{7}{8}$ - $3\frac{2}{8}$ =

12) 2)16381



13) How many more students in grade 4 than grade 2?

14) How many students in 1st, 2nd, and 3rd grades combined?

All taskcards are available in colorful cardstock, reproducible blackline masters, or digital PDF downloads.

Mixed Practice D & E each

have 20 half-page task-

cards.

Fraction Concepts (20 of 20)

(cardstock, reproducible blackline masters, & digital downloads)

Fraction Concepts is graphic full-page bridging material encompassing all basic fraction concepts: equivalency, comparisons, reducing, improper to mixed numbers, mixed to improper, renaming, fraction of a group, addition and subtraction of like fractions, basic multiplication and division of fraction by whole number, and word problems, and answer keys. It is available in all three formats.

Name_____ Date____

1) In the fraction $\frac{2}{3}$, the denominator is _____, and the numerator is _____.

Proper (P), improper (I), or mixed number (MN)?

6)
$$\frac{3}{5}$$
 $\frac{2}{5}$ 7) $\frac{1}{2}$ $\frac{2}{4}$ 8) $\frac{2}{3}$ $\frac{3}{2}$ 9) $\frac{1}{8}$ $\frac{1}{9}$

Simplify:

10)
$$\frac{3}{9}$$
 _____ 11) $\frac{5}{4}$ _____ 12) $2\frac{6}{8}$ _____ 13) $1\frac{4}{3}$ _____

Work the problems & simplify answers if possible. (*Hint, sometimes it helps to simplify first too.)

14)
$$\frac{8}{9} + \frac{2}{9} =$$
 _____ 15) $\frac{8}{9} - \frac{2}{9} =$ _____

16)
$$5\frac{3}{4} + 2\frac{1}{4} =$$
 17) $\frac{4}{15} + \frac{5}{15} =$ _____

18)
$$4\frac{3}{5} + 1\frac{3}{5} =$$
 19) $5\frac{9}{10} - 1\frac{3}{10} =$ _____

18)
$$4\frac{3}{5} + 1\frac{3}{5} =$$
 _____ 19) $5\frac{9}{10} - 1\frac{3}{10} =$ _____ 21) $12\frac{9}{10} \div 3 =$ _____

$$3\frac{3}{5} + \frac{4}{4} =$$
 _____ $23)^*$ $3\frac{6}{7} + 2\frac{3}{3} =$ _____

$$1\frac{1}{3} + 5\frac{2}{5} + 2\frac{2}{3} + 1\frac{1}{5} =$$

Juan rode his bike
$$\frac{3}{4}$$
 mile. Since there are 1,760 yards in one mile, how many yards did he ride his bike?

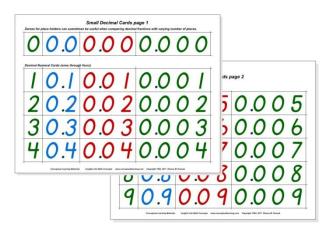
Montessori Three-Place Decimal Cards

Our color-coded decimal cards include units, tenths, hundredths, and thousandths. As in other Montessori materials, units and thousandths are signified by the color green, tenths are blue, and hundredths are red.

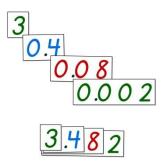
Your set includes an introduction, one set of large cards and three separate sets of small cards. Also included are two reproducible decimal grids for extensions.

Preparation

- Laminate all pages except for the instructions and decimal grids which are to be photocopied for children to write on.
- Cut the cards that you need and save the rest for spare parts. Organize sequentially by size and color. Stack and secure with rubber bands. The entire set can be stored in a 9-inch plastic sorter.



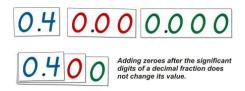
The introduction is used to introduce the place values concepts of one unit, tenth, hundredth, and thousandth. This set of cards is larger than the others.



Decimal cards are extremely helpful in discovering the meaning and value of decimal fractions.

Decimal equivalencies

In advance of challenging exercises, it would be helpful to guide the student in discovering decimal equivalence. An example is that 0.4, 0.40, 0.400, and all have the same value. Also stress that zeros before the decimal point have no value. For example 0.4 = .4 because zero and four tenths means the same thing as four tenths.



As with the regular Montessori numeral cards, the decimal cards are often used in conjunction with manipulatives for operations. The large cards may be used to represent the large values such as sums, minuends, products, and dividends. Small cards are used to represent smaller values such as addends, factors, subtrahends, differences, and quotients.

Decimal grids can be used for decimal numbers of various decimal places on both sides of the decimal point -- from whole numbers through hundred thousands to decimal numbers through millionths.

Small Decimal Cards page 1

Zeroes for place holders can sometimes be useful when comparing decimal fractions with varying number of places.

0
0
Ö
0
0
Ö
0
Ö
0
0

Decimal Numeral Cards (ones through fours)

	~	3	1
0	0	0	0
Ö	0	0	O.
0	0	0	0
	2	3	4
Ö	Ö	Ö	Ö
0	0	0	0
	%		
0	0	0	0
	2	3	1

Small Decimal Cards page 2

Decimal Numeral Cards (fives through nines)

S	9		00	5
0	0	0	0	0
Ö	Ö	Ö	0	O.
0	0	0	0	0
2	9		00	6
Ö	Ö	Ö	Ö	O
0	0	0	0	
				6.
S	9		00	5

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Decimal Introduction (20 of 20)

(cardstock, reproducible blackline masters, & digital downloads)

Decimal Introduction is full-page taskcard set encompassing two- and three-place decimals. The sample depicts the cumulative exercise for the entire set, with each of the included skills addressed in an earlier page. All taskcard series are available in all three formats.

Vame	Date
In 24.1	18
1)	What digit is in the tenths' place?
2)	What digit is in the tens' place?
Chang	ge to a decimal
3)	\frac{5}{10} =
4)	3 <u>14</u> =
5)	$9\frac{3}{100} = $
6)	$3\frac{6}{10} = $
7)	17 ³² / ₁₀₀ =
Chang 8)	ge to a fraction 3.3 =
9)	4.67 =
10)	19.07 =
11)	Round 23.46 to nearest tenth
12)	Round 165.51 to nearest whole
Work	the following problems:
13)	4.65 + 0 .2 =
14)	5.86 - 3 =
15)	2.4 x 7 =
16)	2.84 ÷ 4 =
17)	\$5 - \$2.46 =
18)	3.5 x 3 =

Rename

Exercise 7 of 10

Rename 7	Rename 7	Rename 7	Rename 7	Rename 7	Rename 7	Rename 7	Rename 7
7 15 12 8 8 2	3 12 10 4 3 B	21712 382	2 8 3	8 10 18 8 7 8	21410 3 5 B	5 14 15 B 55 55	41515 8 8 8
3rd step	3rd step	3rd step	3rd step	3rd step	3rd step	3rd step	3rd step
Rename 7	Rename 7	Rename 7	Rename 7	Rename 7	Rename 7	Rename 7	Rename 7
5 12 8 & 2	210 430	382	283 283	978	35B	6 5/5	5 15 5 6 8
2nd step	2nd step	2nd step	2nd step	2nd step	2nd step	2nd step	2nd step
Rename 7	Rename 7	Rename 7	Rename 7	Rename 7	Rename 7	Rename 7	Rename 7
862	430	382	283	918	350	655	565
1st step	1st step	1st step	1st step	1st step	1st step	1st step	1st step

"Rename" Matching Cards

Each Rename exercise is printed on a full page. It entails matching regrouped values with the original. More advanced than its predecessor Exchange, Rename prepares the student for multiple regroupings required in multi-digit addition and subtraction operations.

Frequently, Rename is introduced with place value blocks or other hands-on place value materials, but the child is soon able to abstract the process. The last couple of exercises prepare for subtraction with zeroes in the minuend.

Rename is available only as a cardstock matching exercise. Cardstock manipulatives require lamination and cutting.

Estimation (10 of 10)

(cardstock, reproducible blackline masters, & digital downloads)

Estimation is a full-page 10-exercise taskcard set to develop estimation skills. Featured is rounding to estimate sums, differences, products, and quotients involving whole numbers, mixed numbers, and dollars and cents. The sample depicts the cumulative exercise for the entire set, with each of the included skills addressed on an earlier page. Answer sheets are included. All taskcard series are available in all three formats.

Name	e Date_	
Estir	mate the following.	
1)	5893 + 1758 ≈ 6000 +	<i>2000</i> ≈ 8000
2)	629 x 78	
3)	$5\frac{2}{3} + 9\frac{1}{10}$	
4)	\$8.23 - \$1.68	
5)	8756 + 165	
6)	$5\frac{8}{9} \times 1\frac{2}{15}$	
7)	518 - 175	
8)	586 x 21	
9)	\$98.99 + \$2.99	
10)	$\frac{1}{8}$ of 79	
11)	5263 - 29	
12)	\$19.99 + \$4.06	
13)	8632 - 173	—— Esti
14)	$\frac{1}{5}$ of 44	mati
15)	8419 ÷ 3	Estimation 10
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Advanced Numeration

(cardstock, reproducible blackline masters, & digital downloads)

Advanced Numeration is a full-page 20-exercise taskcard set involving numeration concepts of whole numbers up to 9 digits: place value, expanded form, comparisons, adding powers of 10, reading large numerals, rounding, cumulative review, and answer key. All taskcard series are available in all three formats.

	Advanced Numeration 3
Name	Date
4 hundred thousands, 1 million, 4 ones, 7 hundred 3 hundreds, 9 tens, 2 millions, 6 hundred thousand 2 thousands, 3 hundreds, 9 millions, 3 ten thousand 4 tens, 8 ones, 1 hundred thousand, 6 ten thousand 5 4 hundreds, 1 ten, 6 ones, 4 ten thousands, 5 tho 6 3 thousands, 2 hundreds, 4 tens, 9 millions, 4 hundred 7 3 millions, 4 hundred thousands, 5 ten thousands, 2 tens, 4 millions, 8 ten thousands, 1 thousand 9 2 ten thousands, 3 hundred thousands, 3 h	ands, 4 thousands, = ands, 8 tens = ands, 2 hundreds = busands =
10) 7 tens, 3 millions, 3 hundreds, 2 ones = 11) 3 ones, 5 millions, 9 tens = 12) 3 hundred thousands, 4 tens, 4 millions, = 13) 3 hundreds, 8 tens, 3 ones, 7 millions, 4 tho 14) 3 thousands, 5 hundreds, 1 ten, 6 hundred 15) 3 millions, 4 tens, 9 hundreds = Conceptual Learning Materials, Inc. www.conceptuallearning.com Copyr	1) Ten thousand's place in 18,721,345? 2) One million's place in 18,721,345? 3) Hundred thousand's place in 18,721,345? 4) 3 millions, 7 hundreds, 2 tens, 8 ones = 5) 8 millions, 6 hundred thousands, 2 tens = 6) 867,987 (-(-,-, or =) 876,999 7) 3,345,000 (-(-,-, or =) 3,344,999 8) One million more than 19,000,000 = 9) Thousand more than 4,599,000 = 10) Hundred more than 267,988 = 11) One million less than 1,000,000 = 12) Hundred less than 2,049 = 13) Thousand less than 100,999 = 14) 2,960,000 + 100,000 = 15) 408,000 - 10,000 = 16) 1,009,000 - 100,000 = 17) Three million, one thousand, eighty-two = 18) Six thousand, three hundred forty-one = 19) Round 9,499,000 to the nearest million =

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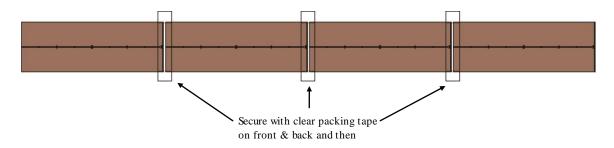
Fraction Line and Tags

Purpose: to visualize the relationship between proper fractions, improper fractions, and mixed numbers and to acquire an intuitive understanding of their value.

Contents

- Ten color-coded fraction lines. For the most part, colors correspond to Montessori short-bead-stair colors. For example, halves correspond to the green "two" beads, thirds correspond to the pink "three" beads, and so on.
- Two identical sheets of ivory tags that include un-simplified proper and improper fractions (one sheet is to use, and the second is for spare parts).
- Two identical sheets of white tags representing simplified and mixed-number versions that correspond to the respective ivory tags (again, one sheet is for use, and the second set is for spare parts).

Preparation of lines: Laminate the colored lines as well as the four pages of labels before cutting. Cut each set of colored lines along the dashed lines. Butt the four sections end-to-end and secure on both the front and back with clear packing tape. Trim the tape so it is even with the rest of the line. You will have created lines that are each four units long and subdivided into various fractional parts. If desired, you may fold "accordion-style" and place all fraction lines together in a 3 x 9 organizer for storage.



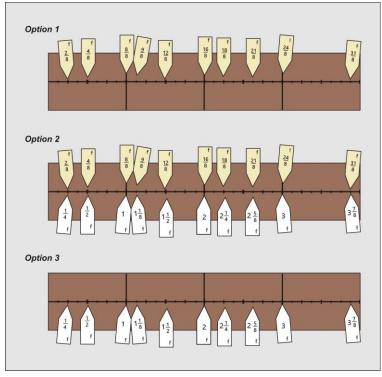
Preparation of tags: The four pages of tags should be laminated before cutting. Set one page of ivory tags and one page of white tags aside and save for future replacement parts.

Systematically cut the "half" tags on the ivory sheet and the "half" tags on the white sheet and store them in the same hardware drawer, box, or zip-lock envelope. The "half" tags are all designated with the letter "a" on the edge. Systematically do the same for thirds (b), fourths (c), fifths (d), and so one. When you have finished, you will have eleven different containers, each with about 10 ivory tags and 10 white tags. You may label the containers with the appropriate adhesive label which was included in your set.

Presentation: The child uses a specific number line with the appropriate tags. For examples, the "halves" number line is green, and it goes with the "halves" tags in the container with the letter "a". Each number line is intended for a specific fractional part and is used with corresponding tags.

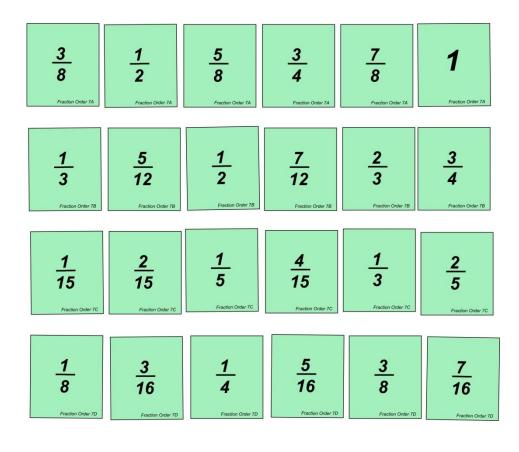
It is recommended that younger students progress through the set sequentially until it becomes challenging. Older children may relate to their previous knowledge of equivalent fractions.

The child opens the appropriate line and places it on a table or rug. He or she places the ivory tags along the top of the line (Option 1). The next phase would be to start with the ivory tags on the top and immediately place the white tags in the corresponding position along the bottom (Option 2); this phase can be valuable in discovering the relationship of the two versions. The final and most abstract phase is placement of the white tags first (Option 3). For this phase the ivory tags may be used as a control to self-check the work.



Fraction Order

(7 of 10)



Fraction sequencing cards are four separate sequences of six fractional values ordered from least to greatest: like denominators, like and unlike fractions, improper fractions, and mixed numbers. Initially students can use fraction manipulatives or charts as aids, but when ready to abstract they can rely on the intuition gained through hands-on work or through finding common denominators. Incremented by level of difficulty, the set includes 10 separate exercises – each printed on a separate sheet. Organizational labels for containers and answer keys are included. All manipulative cardstock work requires lamination and cutting.

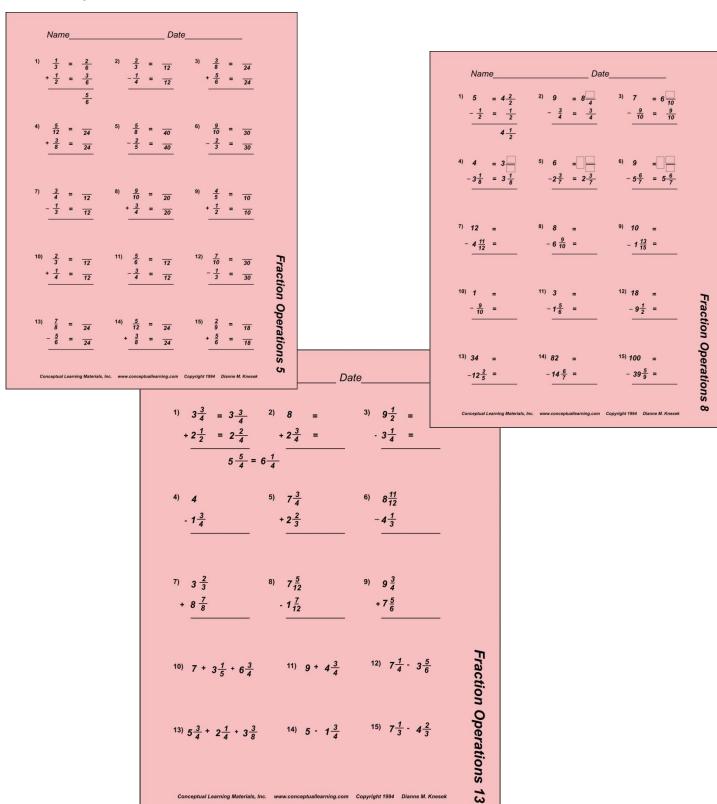
Fraction Order reproducible masters and digital downloads have the same problems as the matching cards, but come in a freeresponse worksheet format on which children record their own answers.

Tiggle T		Name				Date	
Fraction Order 7A Fraction Order 7B Fraction Order 7C Fraction Ord	least to greatest. 8 2 5 1 8 2 8						1 Fraction Order 7A
1 3 3 4 3 4 3 4 4 4 5 5 5 7 7 7 7 7 7 7		Fraction Order 7A	Fraction Order /A				
12	2 1 3 7 12 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5					2 3	3 4
1	ot (wor	Fraction Order 7B					
Table of the state	fraction (left of each			<u>1</u> 5	<u>4</u> 15		
$\frac{5}{16}$ $\frac{3}{8}$ $\frac{7}{16}$ $\frac{1}{4}$	ropriate	Fraction Order 7C					
	Student is to select app. 2 6 6 7 7 7 7 7 7 7 7	1/8				3 8	7 16
Fraction Order 7D		Fraction Order 7D					

Fraction Operations

(cardstock, reproducible blackline masters, & digital downloads)

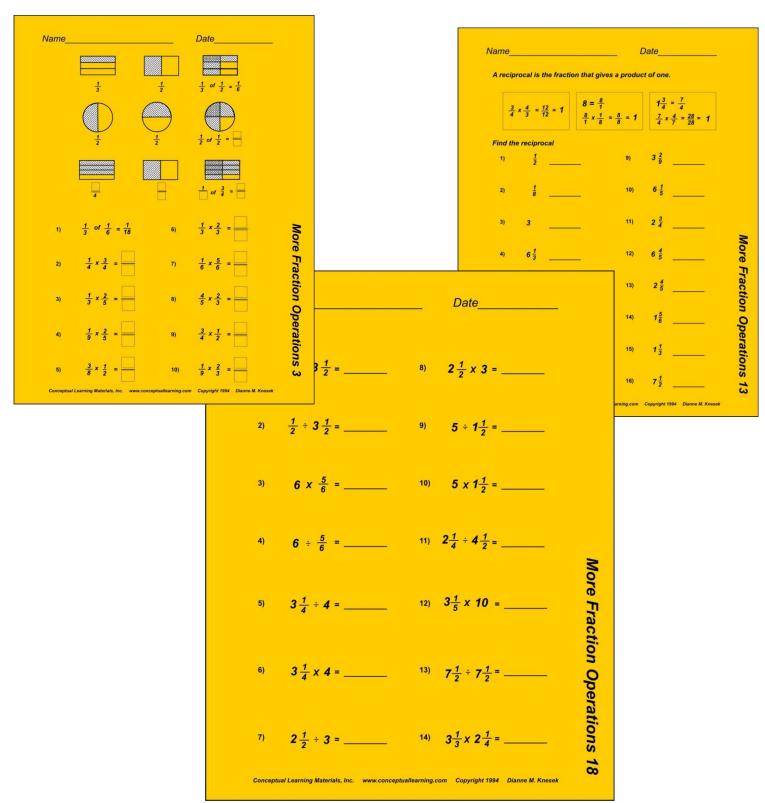
Fraction Operations is a step-by-step 13-exercise series focusing on addition and subtraction of unlike fractions: equivalent fractions, common denominators, unlike proper fractions, unlike mixed numbers, regrouping of fractional minuends, multi-step subtraction requiring common denominators and regrouping, cumulative review, and answer key. All taskcards are available in all three formats.



More Fraction Operations

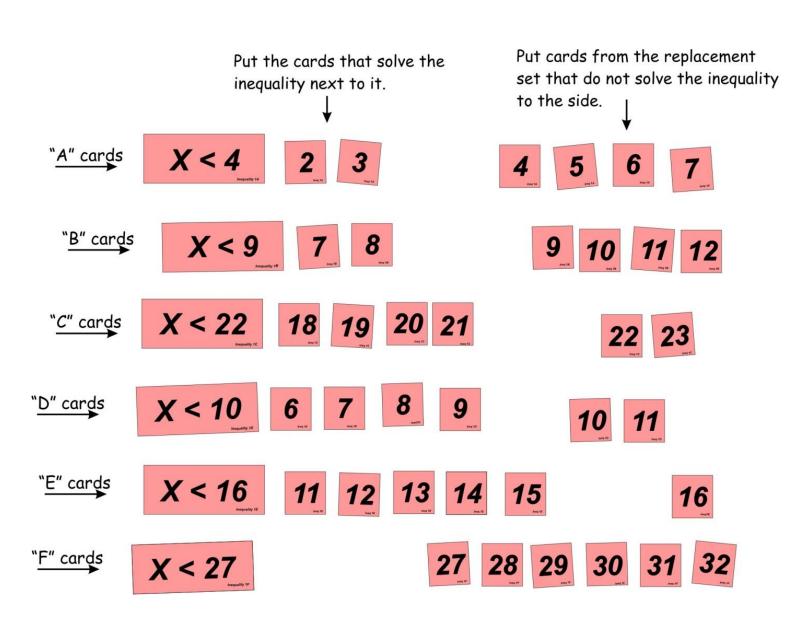
(cardstock, reproducible blackline masters, & digital downloads)

More Fraction Operations is an illustrated, step-by-step 20-exercise series focusing on multiplication & division of fractions, whole numbers, and mixed numbers. After practice with initial presentations, shortcuts such as cancelling are also presented. Multiplication and division are presented in vertical steps much as algebra is. More Fraction Operations 18 is a cumulative review of all multiplication & division of fractions, while 19 and 20 are cumulative reviews of all four fraction operations. All taskcards & answers are available in all three formats.rs..



Inequalities (1 of 15)

Developing logic and critical thinking skills, Inequalities is a comfortable introduction to basic algebraic notation. Algebraic representations of open and closed intervals are solved by selecting solution cards from a given replacement set. The series introduces variables as well as the relationship symbols >, \geq , <, and \leq . Inequalities in printed in black ink on salmon cardstock and includes a paper answer key. There are 15 separate exercises, each with six problems. The cardstock manipulative exercise requires lamination and cutting. Organizational labels for containers are included.



Number Theory (12 of 20)

(cardstock, reproducible blackline masters, & digital downloads)

Number Theory is a 20-exercise free-response taskcard series that includes prime and composite numbers, laws of divisibility, factors, prime factors, greatest common factor, multiples, least common multiple, exponents, simple radicals, and answer keys. All tasckcards are available in all three formats.

Name		Date
1)	Prime factors of 36	2 ² x 3 ²
2)	Prime factors of 48	
3)	Prime factors of 12	
4)	Prime factors of 49	
5)	Prime factors of 75	
6)	Prime factors of 32	
7)	Prime factors of 56	
8)	Prime factors of 84	
9)	Prime factors of 90	
10)	Prime factors of 96	
11)	Prime factors of 144	
12)	Prime factors of 125	
13)	Prime factors of 99	
14)	Prime factors of 112	
15)	Prime factors of 120	
16)	Prime factors of 128	
17)	Prime factors of 200	
18)	Prime factors of 164	
19)	Prime factors of 150	
20)	Prime factors of 16	

Decimal Line and Tags

Your set includes two separate sets of decimal lines and tags as well a set of decimal numeral cards.

Because Montessori hundreds and hundredths are red, the red line and tags with red numerals is for two-place decimals. Because Montessori thousands and thousandths are green, the green line and tags with green numerals is for three-place decimals. There is a set of adhesive organizational labels and a set of blue "tenths" tags for each line. Some teachers store the two sets of tags separately, while other teachers save shelf space and containers by storing them together.

The decimal numeral cards may be used with either set or with any other decimal materials in the classroom.

Also included are two pages of blank tags and a decimal grid for extensions. These are not laminated and can be photocopied when additional copies are needed.

Preparation

- Laminate all pages except for the blank labels and decimal grid.
- Each of the red pages and green pages has four sections separated by dashed lines. Cut along the dashed markings on each page. For each line, butt 10 sections end-to-end and secure both sides with clear packing tape. Leave a small space between the sections before taping to facilitate folding the lines accordion-style for storage. Retain the two leftover sections for each line for extensions or replacement pieces.
- Eight separate exercises are included for each line (a, b, c ... h) There are enough blue tags to include with each exercise if the teacher so chooses, or she or he may place one of two sets of blue tags in a separate container and use the extras for replacement parts. Cut and sort the tags according to letter. Label the containers or drawers with the appropriate adhesive label included with the sets.
- The unlaminated blank tags and decimal grid may be photocopied as needed for children to write on.

Decimal Numeral Cards

Decimal are extremely helpful in discovering the meaning and value of decimal fractions.

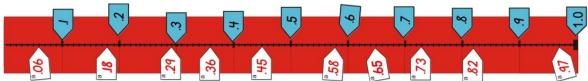


Decimal equivalencies

In advance of challenging exercises, it would be helpful to guide the student in discovering decimal equivalence. An example is that 0.4, .4, 0.40, .40, 0.400, and .400 all have the same value.

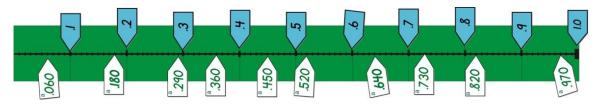
Hundredth line and tags

The student progresses sequentially through each drawer. It is important for the child to understand that adding a zero to the end of a one-place decimal fraction does not change its value. This concept is helpful when sequencing a mixture of one-and two-place decimals.

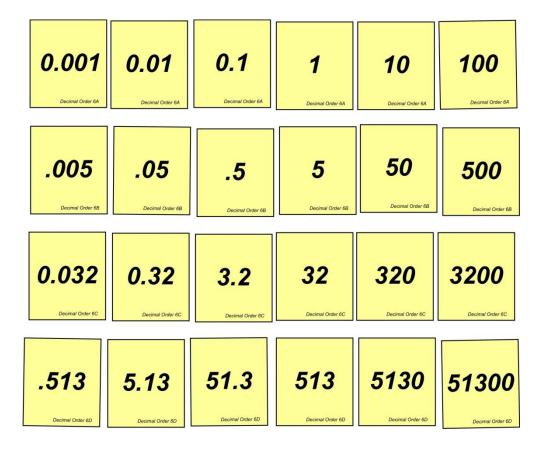


Thousandth line and tags

The student progresses through each drawer. The last several exercises are challenging. It might be helpful for the child to visualize adding enough zeroes to one and two-place decimals to bring them to three digits.



Decimal Order (6 of 10)



Decimal sequencing cards are four separate sequences of six decimal values ordered from least to greatest. Incremented by level of difficulty, the set includes 10 separate exercises – each printed on a separate sheet. Organizational labels for containers and answer keys are included. All manipulative cardstock work requires lamination and cutting.

Decimal Order reproducible masters have the same problems as the matching cards, but come in a free-response worksheet format on which children record their own answers. Decimal Order workpage digital downloads will be available in fall of 2019.

