

Conceptual Learning Materials
Insights into Math Concepts
www.conceptuallearning.com

Sample 2-3 Packet

1. Thousand Line Instructions
2. *Thousand Line Worksheet (for immediate child use)
3. Order Green
4. Place Value Match
5. *Place Value Workpage
6. *Numeration Pink and Tens Gold
7. Exchange
8. *Thousands Green
9. Problem Solving C
10. Mixed Practice C
11. Geometry Introduction
12. Money C
13. Time C
14. Fraction Match
15. Roman Numerals
16. **Fraction Chart
17. *Fraction Concepts
18. *Decimal Introduction

*Actual free-response workpage

**Graphic for child use

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 “Mixed Practice B” would be challenging for first grade, on-level for second grade, and reinforcement for third 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.

K	1	2	3	4	5	6	7	8	www.conceptuallearning.com
									Golden Beads (blue)
									Golden Beads (pink)
									Golden Beads (green)
									Hundred Line & Labels
									Problem Solving A
									Mixed Practice A
									Money A
									Time A
									Thousand Line & Labels
									Order (blue)
									Order (pink)
									Order (green)
									Place Value (blue)
									Place Value (pink)
									Place Value (green)
									Numeration (blue)
									More Numeration (pink)
									Tens (gold)
									Exchange
									Money B
									Time B
									Problem Solving B
									Mixed Practice B
									Thousands (green)
									Problem Solving C
									Mixed Practice C
									Geometry Introduction
									Money C
									Time C
									Fraction Match
									Roman Numerals
									Problem Solving D
									Mixed Practice D
									Fraction Concepts
									Decimal Introduction

Thousand Line and Tags

Note: Child may use either the Montessori thousand chain or the green number line for number line exercises.

Contents

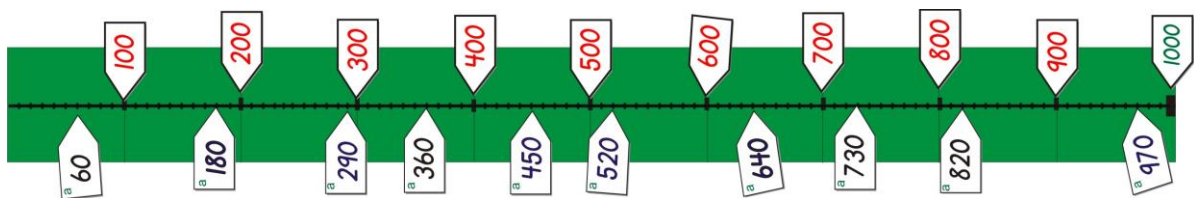
1. Instructions & adhesive organizational labels for hardware drawers or other storage containers
2. Two identical pages of white tags (one to use and one for replacement of lost tags). To assist in organizing exercises, each “work” is labeled with the same green lower case letter in the upper left-hand corner of the tag (a-h). Colored numerals illustrate how red multiples of 100 and the green 1000 are used as guides.
3. One additional page of red multiples of 100
4. One page of multiples of ten for optional use
5. Three green pages to be cut into “hundreds”. Ten sections are combined to make thousand line.
6. Two identical pages of blank tags for extensions. These may be photocopied if the teacher wishes.
7. Two pages of numeral cards (Page 1 is an introduction and one’s through fours, and Page 2 is five’s through nine’s.)
8. Grid for counting or for operations. This may be photocopied for children to write on their own copies as desired.

Preparation

1. Reproducible blank tags and operations grid are separated until ready for use.
2. Laminate all other cardstock materials.
3. Cut green number lines along dashed lines. Butt ten sections end-to-end and secure with packing tape from both front and back. Fold number line accordion-style and store in 12-inch organizer or zip bag.
4. Cut and store one set of red tags in separate hardware drawer, box, or zip bag for first presentation.
5. Cut and store another set of red tags along with each of the sets of white labels (a-h) in separate hardware drawers, boxes, or zip bags. Save remaining red tags for replacement parts.
6. Cut optional set of blue ten tags if desired. A set may be stored in each container, or they may be stored separately for occasional use.

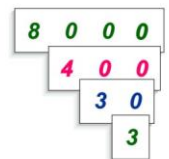
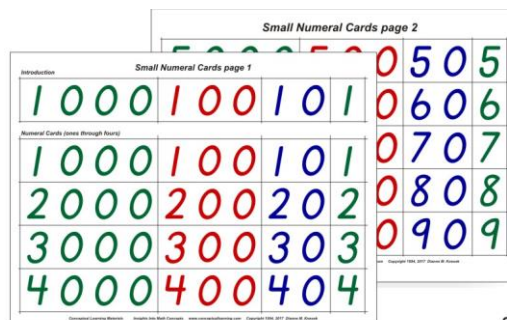
Instructions for use

1. In the first presentation, guide the child in discovering that a hundred consists of ten groups of ten and the entire thousand line consists of ten groups of a hundred. Have the child count by hundreds and place the red tags along the top of the line as show below. For a more detailed lesson, the child may place a set of “tens” in the first hundred section or in all hundred sections.
2. In the second session, the child places the red tags along the top as in the first presentation, and puts the “a” labels along the bottom.
3. In subsequent lessons, the child progresses through drawers “b” through “h”.



Numeral Cards

1. Also included are two pages of numeral cards. These are to be laminated and cut. If desired, the top portion of Page 1 (the first 1000, 100, 10, and 1) may be used as a separate introductory lesson; otherwise, save these for replacement parts.
2. The cut 1000’s, 100’s, 10’s, and 1’s may be stacked according to size and secured with a rubber band or placed in a slotted seat chart.
3. To use, the child organizes the cards on a table or rug. The appropriate cards may be used to compose numbers as shown.



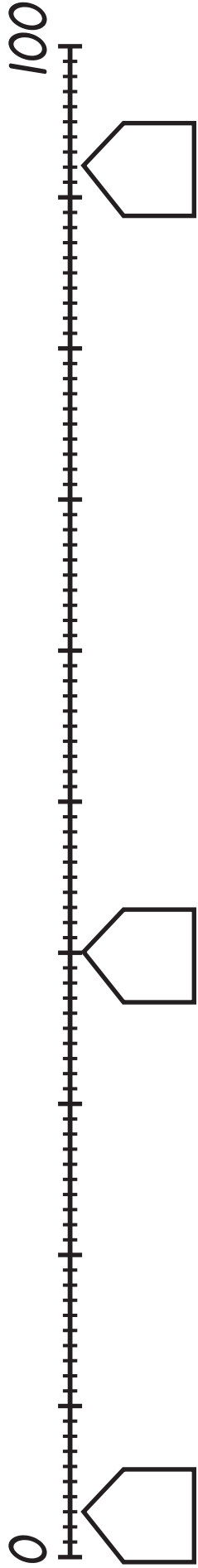
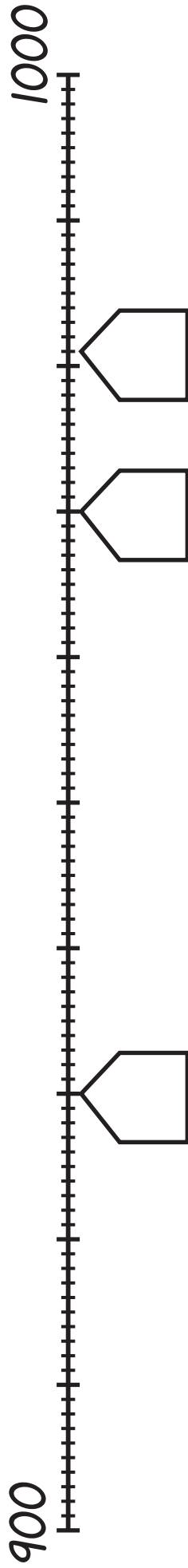
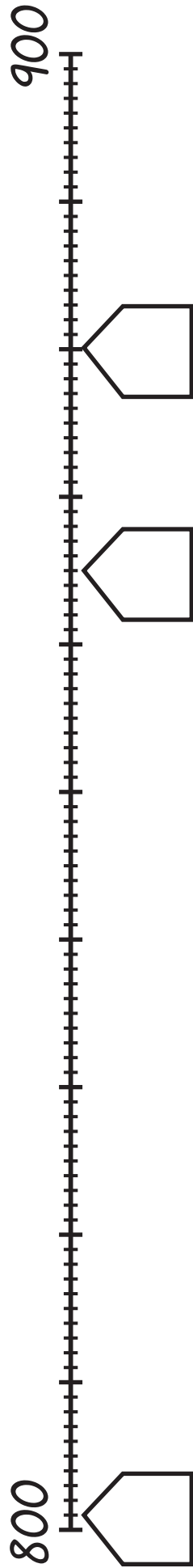
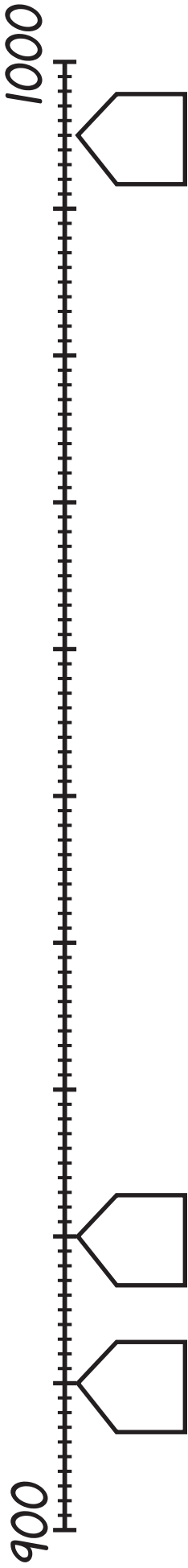
8 thousands, 4 hundreds, 3 tens, and 3 ones means $8000 + 400 + 30 + 3$ and can be written as 8,433.

Operations Grid

Also included is a reproducible grid that can be used for counting exercises or operations.

Name _____

Date _____



Order Blue, Pink, and Green



Cardstock version

Order denotes a sequencing exercise of various types. Order Blue (15 exercises) sequences two-digit numerals, while Order Pink (8 exercises) sequences three-digit and Order Green (8 exercises) sequences four-digit numerals. Each exercise is four separate sequences of six values. The cardstock manipulative version is printed on a full page which is to be laminated and cut.

Reproducible Blackline or Digital PDF Download

Blackline and digital versions are reproducible free-response worksheets that correspond to the cardstock counterparts.

Name	Date				
8839 <small>Order Green 29A</small>	8842 <small>Order Green 29A</small>	8843 <small>Order Green 29A</small>	8844 <small>Order Green 29A</small>		
8896 <small>Order Green 29B</small>	8898 <small>Order Green 29B</small>	8899 <small>Order Green 29B</small>	8901 <small>Order Green 29B</small>		
9698 <small>Order Green 29C</small>		9702 <small>Order Green 29C</small>	9703 <small>Order Green 29C</small>		
9994 <small>Order Green 29D</small>	9995 <small>Order Green 29D</small>	9997 <small>Order Green 29D</small>			

Rows A, B, C, and D represent 4 independent sequences. Student is to 'write in' missing numerals.

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Place Value Match (Blue, Pink, and Green)

7 thousands, 8 tens, 2 ones
Place value 8A

7082
Place value 8A

7 thousands, 8 hundreds, 2 ones
Place value 8A

7802
Place value 8A

7 thousands, 8 hundreds, 2 tens
Place value 8A

7820
Place value 8A

6 thousands, 5 hundreds, 8 tens
Place value 8A

6580
Place value 8A

6 thousands, 8 tens, 5 ones
Place value 8A

6085
Place value 8A

6 thousands, 8 hundreds, 5 ones
Place value 5C

6805
Place value 8A

1 thousand, 2 hundreds, 3 tens
Place value 8B

1230
Place value 8B

1 thousand, 2 tens, 3 ones
Place value 8B

1023
Place value 8B

1 thousands, 2 hundreds, 3 ones
Place value 8B

1203
Place value 8B

1 thousand, 6 hundreds, 7 tens
Place value 8B

1670
Place value 8B

1 thousand, 6 hundreds, 7 ones
Place value 8D

1607
Place value 8B

1 thousand 6 tens, 7 ones
Place value 8B

1067
Place value 8B

Name _____ Date _____

7 thousands, 8 tens, 2 ones

7082

7 thousands, 8 hundreds, 2 ones

7 thousands, 8 hundreds, 2 tens

6 thousands, 5 hundreds, 8 tens

6 thousands, 8 tens, 5 ones

6 thousands, 8 hundreds, 5 ones

1 thousand, 2 hundreds, 3 tens

1 thousand, 2 tens, 3 ones

1 thousand, 2 hundreds, 3 ones

1 thousand, 6 hundreds, 7 tens

1 thousand, 6 hundreds, 7 ones

1 thousand, 6 tens, 7 ones

Tens Gold

Exercise 25 of 30

Name _____

13, 23, 33, _____, _____

29, 39, 49, _____, _____

78, 68, 58, _____, _____

86, 96, 106, _____, _____

74, 84, 94, _____, _____

98, 108, 118, _____, _____

144, 154, 164, _____, _____

271, 281, 291, _____, _____

124, 114, 104, _____, _____

133, 123, 113, _____, _____

77, 87, 97, _____, _____

43, 33, 23, _____, _____

After changing game. May use golden beads stamp game, or bead frame.

Tens 25

Name _____

>, <, or =

$500 + 20 + 3 > 521$

$300 + 60$ 306

$800 + 5$ 850

691 $600 + 90 + 10$

$600 + 30 + 2$ $600 + 20 + 3$

$400 + 3 + 60$ $400 + 60 + 3$

506 $500 + 60$

$300 + 40 + 7$ $20 + 1 + 400$

$600 + 0 + 5$ $600 + 50$

10 tens 110

10 hundreds 1000

May use golden beads or stamp game.

More Numeration 5

Pink Numeration (3-digit)

Exercise 5 out of 15

Exchange

Exercise 8 of 10

1st
9 hundreds 2 tens 5 ones
Exchange 8

2nd
9 hundreds 1 ten 15 ones
Exchange 8

3rd
$$\begin{array}{r} 1 \ 15 \\ 925 \end{array}$$

Exchange 8

1st
9 hundreds 8 tens 3 ones
Exchange 8

2nd
9 hundreds 7 tens 13 ones
Exchange 8

3rd
$$\begin{array}{r} 7 \ 13 \\ 983 \end{array}$$

Exchange 8

1st
9 hundreds 7 tens 0 ones
Exchange 8

2nd
9 hundreds 6 tens 10 ones
Exchange 8

3rd
$$\begin{array}{r} 6 \ 10 \\ 970 \end{array}$$

Exchange 8

1st
9 hundreds 6 tens 3 ones
Exchange 8

2nd
9 hundreds 5 tens 13 ones
Exchange 8

3rd
$$\begin{array}{r} 5 \ 13 \\ 963 \end{array}$$

Exchange 8

1st
9 hundreds 1 ten 0 ones
Exchange 8

2nd
9 hundreds 0 tens 10 ones
Exchange 8

3rd
$$\begin{array}{r} 0 \ 10 \\ 910 \end{array}$$

Exchange 8

1st
9 hundreds 4 tens 1 one
Exchange 8

2nd
9 hundreds 3 tens 11 ones
Exchange 8

3rd
$$\begin{array}{r} 3 \ 11 \\ 941 \end{array}$$

Exchange 8

1st
9 hundreds 8 tens 4 ones
Exchange 8

2nd
9 hundreds 7 tens 14 ones
Exchange 8

3rd
$$\begin{array}{r} 7 \ 14 \\ 984 \end{array}$$

Exchange 8

1st
9 hundreds 2 tens 5 ones
Exchange 8

2nd
9 hundreds 1 ten 15 ones
Exchange 8

3rd
$$\begin{array}{r} 1 \ 15 \\ 925 \end{array}$$

Exchange 8

"Exchange" Matching Cards

Each Exchange exercise is printed on a full page. It entails matching regrouped values with the original. The purpose is to prepare the child for any operation in which regrouping is required.

Normally, it 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 several exercises are three-part matching exercises that introduce the notation normally used when regrouping two- and three-digit addition and subtraction problems.

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

Thousands (Green)

Exercise 2 of 25

Name _____ Date _____

1) 8 thousands, 6 hundreds, 5 tens, 3 ones = _____

2) 9 thousands, 8 hundreds, 4 tens, 2 ones = _____

3) 9 thousands, 4 tens, 2 ones = _____

4) 9 thousands, 4 hundreds, 2 tens = _____

5) 9 thousands, 4 hundreds, 2 ones = _____

6) 9 thousands, 2 tens = _____

7) 5 tens, 3 ones, 6 thousands, 8 hundreds = _____

8) 9 ones, 5 thousands, 6 hundreds, 1 ten = _____

9) 7 thousands, 2 ones, 8 tens, 4 hundreds = _____

10) 6 hundreds, 2 tens, 8 thousands, 9 ones = _____

11) 6 tens, 8 thousands, 9 ones = _____

12) 3 ones, 3 thousands = _____




May use golden beads, stamp game, or bead frame.

Thousands 2




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 C is printed on ivory 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 C has 20 exercises.

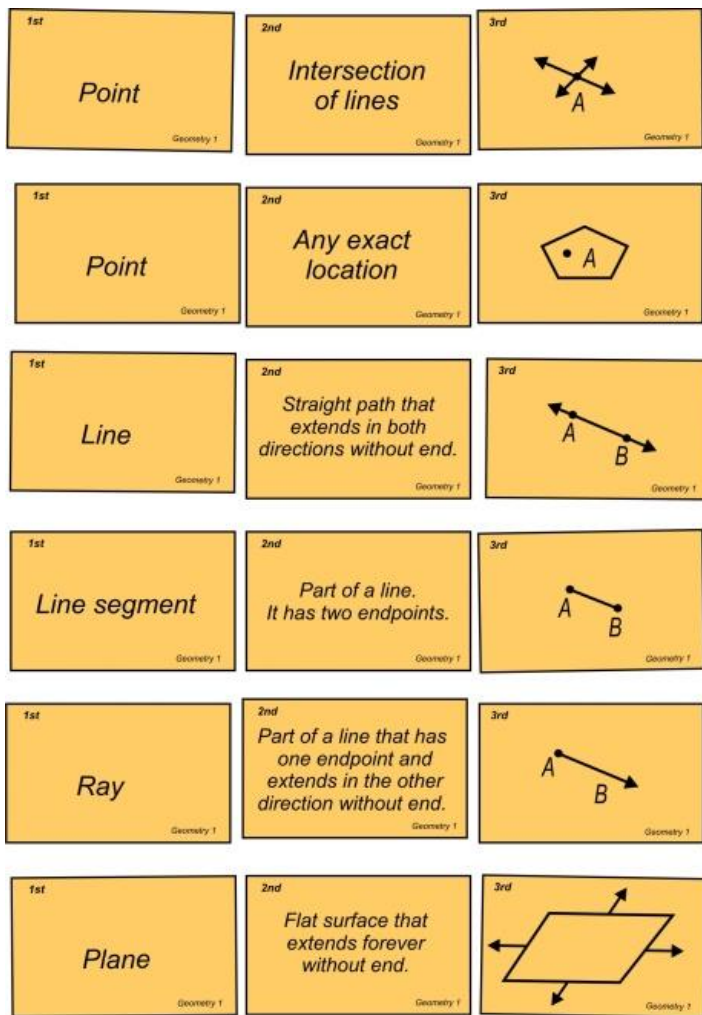
1 st There are 8 slices in each pizza. How many slices are in 4 pizzas?  Problems C1	2 nd $4 \times 8 = \square$ Problems C1	3 rd 32 Problems C1
1 st There are 8 slices in each pizza. How many pizzas are needed for 15 slices? Problems C1	2 nd $15 \div 8 \leq \square$ Problems C1	3 rd 2 Problems C1
1 st Ted and Bob each ate 3 slices. Sue and Ted ate 2 apiece. How many pieces were eaten? Problems C1	2 nd $3 + 3 + 2 + 2 = \square$ Problems C1	3 rd 10 Problems C1
1 st  Each pizza cost \$7.99. How much do 3 pizzas cost? Problems C1	2 nd $\$7.99 \times 3$ Problems C1	3 rd \$23.97 Problems C1
1 st There are 8 slices in each pizza. How many slices are in $\frac{1}{4}$ pizza? Problems C1	2 nd $8 \div 4 = \square$ Problems C1	3 rd 2 Problems C1
1 st One pizza costs \$7.99. How much change is received from a \$10 bill?  Problems C1	2 nd $\$10 - 7.99$ Problems C1	3 rd \$2.01 Problems C1

Problem Solving 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. Reproducible blacklines come in black ink on white paper, but digital downloads may be printed either in black and white or in color depending on the user's printer.

Name _____		Date _____	
1 st There are 8 slices in each pizza. How many slices are in 4 pizzas?  Problems C1	2 nd $4 \times 8 = \square$ Problems C1	3 rd 32 slices Problems C1	
1 st There are 8 slices in each pizza. How many pizzas are needed for 15 slices? Problems C1	2 nd Problems C1	3 rd Problems C1	
1 st Ted and Bob each ate 3 slices. Sue and Ted ate 2 apiece. How many pieces were eaten? Problems C1	2 nd Problems C1	3 rd Problems C1	
1 st  Each pizza cost \$7.99. How much do 3 pizzas cost? Problems C1	2 nd Problems C1	3 rd Problems C1	
1 st There are 8 slices in each pizza. How many slices are in $\frac{1}{4}$ pizza? Problems C1	2 nd Problems C1	3 rd Problems C1	
1 st One pizza costs \$7.99. How much change is received from a \$10 bill?  Problems C1	2 nd Problems C1	3 rd Problems C1	

Insights Into Math Concepts www.conceptuallearning.com Copyright 1995, 2006 Dianne M. Knesek Problem WS C01

Geometry Introduction



Reproducible Blackline or Digital PDF Download

Blackline and digital versions are reproducible free-response worksheets that correspond to the cardstock counterparts. Answer key is included.

Cardstock version

Appropriate for grades 3, 4, and 5, Geometry Introduction spans lower and upper elementary levels. The fifteen-exercise cardstock version is printed on a full page which is then to be laminated and cut. Labels for containers and answer keys are included.

Name _____ Date _____

Word bank: ray, polygon, line, solid, line segment, lines, plane, point

Point <small>Geometry 1</small>	Intersection of _____ <small>Geometry 1</small>	 <small>Geometry 1</small>
_____ <small>Geometry 1</small>	Any exact location <small>Geometry 1</small>	 <small>Geometry 1</small>
_____ <small>Geometry 1</small>	Straight path that extends in both directions without end. <small>Geometry 1</small>	 <small>Geometry 1</small>
_____ <small>Geometry 1</small>	Part of a line. It has two endpoints. <small>Geometry 1</small>	 <small>Geometry 1</small>
_____ <small>Geometry 1</small>	Part of a line that has one endpoint and extends in the other direction without end. <small>Geometry 1</small>	 <small>Geometry 1</small>
_____ <small>Geometry 1</small>	Flat surface that extends forever without end. <small>Geometry 1</small>	 <small>Geometry 1</small>

Money Match A, B, and C

1st Money C14	2nd Money C14	3rd \$10.50 Money C14
1st Money C14	2nd Money C14	3rd \$6.50 Money C14
1st Money C14	2nd Money C14	3rd \$2.74 Money C14
1st Money C14	2nd Money C14	3rd \$6.25 Money C14
1st Money C14	2nd Money C14 How much change?	3rd \$5.00 Money C14
1st Money C14	2nd Money C14 How much change?	3rd \$1.50 Money C14

Cardstock version

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

Name _____		Date _____	
1st Money C14	2nd Money C14	3rd \$10.50 Money C14	
1st Money C14	2nd Money C14	3rd _____ Money C14	
1st Money C14	2nd Money C14	3rd _____ Money C14	
1st Money C14	2nd Money C14	3rd _____ Money C14	
1st Money C14	2nd Money C14 How much change?	3rd _____ Money C14	
1st Money C14	2nd Money C14 How much change?	3rd _____ Money C14	

Insights Into Math Concepts Hands-on Development Sets for School and Home Copyright 2004 Dianne M. Knesek Money C14

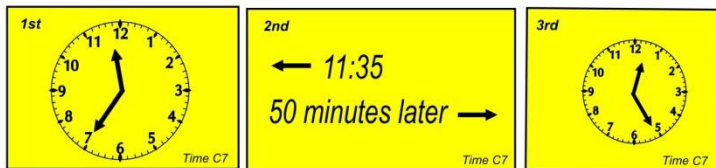
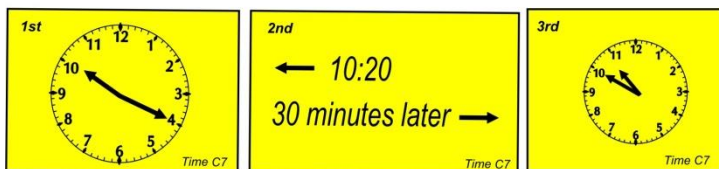
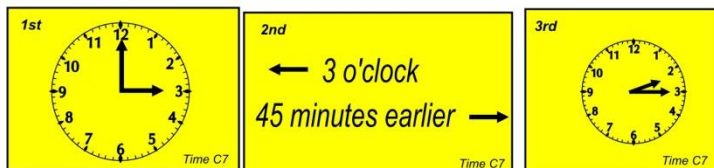
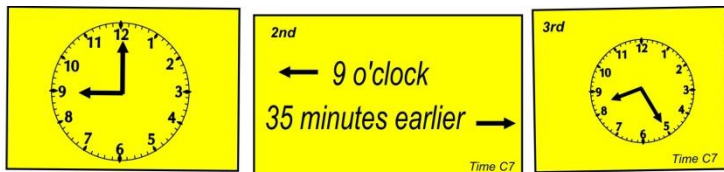
Reproducible Blackline or Digital PDF Download

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

Time Match A, B, and C

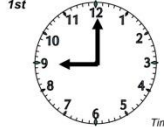

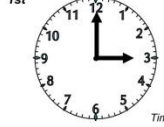
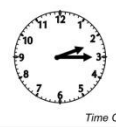
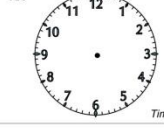
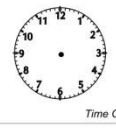

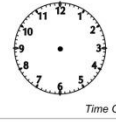


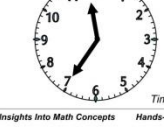
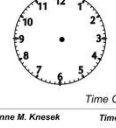
Cardstock version

Time C is printed on solar yellow cover stock in black ink. Each level contains 15 incremented exercises, and the entire 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.



Reproducible Blackline or Digital PDF Download

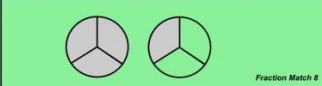
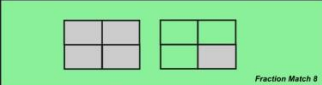
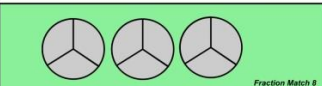
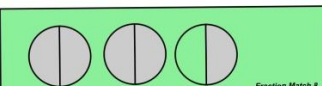
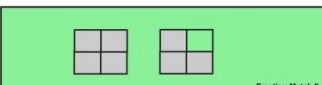
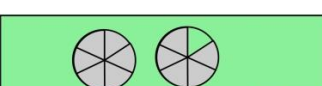
Time reproducible blackline masters are free-response workpages that correspond to the cardstock counterparts. Digital PDF downloads will be available in fall of 2019.

Name _____		Date _____	
1st 	2nd ← 9 o'clock 35 minutes earlier →	3rd 	
1st 	2nd ← ____ o'clock ____ minutes earlier →	3rd 	
1st 	2nd ← 10:20 30 minutes later →	3rd 	
1st 	2nd ← ____ Half hour earlier →	3rd 	
1st 	2nd ← 4:30 ____ minutes later →	3rd 	
1st 	2nd ← ____ 50 minutes later →	3rd 	

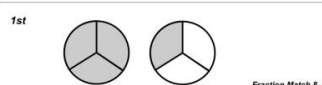
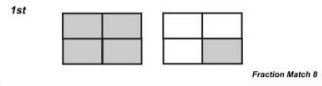


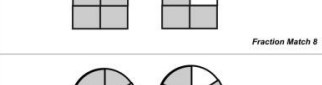
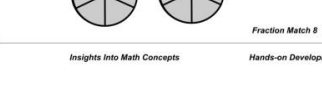
Insights Into Math Concepts Hands-on Development Sets for School and Home Copyright 2001 Dianne M. Knesek TimeC07

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.

 <small>Fraction Match 8</small>	2nd One and one third <small>Fraction Match 8</small>	3rd $1\frac{1}{3}$ <small>Fraction Match 8</small>
 <small>Fraction Match 8</small>	2nd One and one fourth <small>Fraction Match 8</small>	3rd $1\frac{1}{4}$ <small>Fraction Match 8</small>
 <small>Fraction Match 8</small>	2nd Two and two thirds <small>Fraction Match 8</small>	3rd $2\frac{2}{3}$ <small>Fraction Match 8</small>
 <small>Fraction Match 8</small>	2nd Two and one half <small>Fraction Match 8</small>	3rd $2\frac{1}{2}$ <small>Fraction Match 8</small>
 <small>Fraction Match 8</small>	2nd One and three fourths <small>Fraction Match 8</small>	3rd $1\frac{3}{4}$ <small>Fraction Match 8</small>
 <small>Fraction Match 8</small>	2nd One and five sixths <small>Fraction Match 8</small>	3rd $1\frac{5}{6}$ <small>Fraction Match 8</small>

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.

Name _____		Date _____	
1st  <small>Fraction Match 8</small>	2nd one and one third <small>Fraction Match 8</small>	3rd $1\frac{1}{3}$ <small>Fraction Match 8</small>	
1st  <small>Fraction Match 8</small>	2nd _____ and one _____ <small>Fraction Match 8</small>	3rd $\frac{1}{\quad}$ <small>Fraction Match 8</small>	
1st  <small>Fraction Match 8</small>	2nd _____ and _____ <small>Fraction Match 8</small>	3rd _____ <small>Fraction Match 8</small>	
1st  <small>Fraction Match 8</small>	2nd _____ and _____ <small>Fraction Match 8</small>	3rd _____ <small>Fraction Match 8</small>	
1st  <small>Fraction Match 8</small>	2nd _____ and _____ <small>Fraction Match 8</small>	3rd _____ <small>Fraction Match 8</small>	
 <small>Fraction Match 8</small>	2nd _____ and _____ <small>Fraction Match 8</small>	3rd _____ <small>Fraction Match 8</small>	

Insights Into Math Concepts Hands-on Development Sets for School and Home Copyright 2000 Dianne M. Knesek Fraction Match 08

Roman Numerals

Exercise 8 of 15

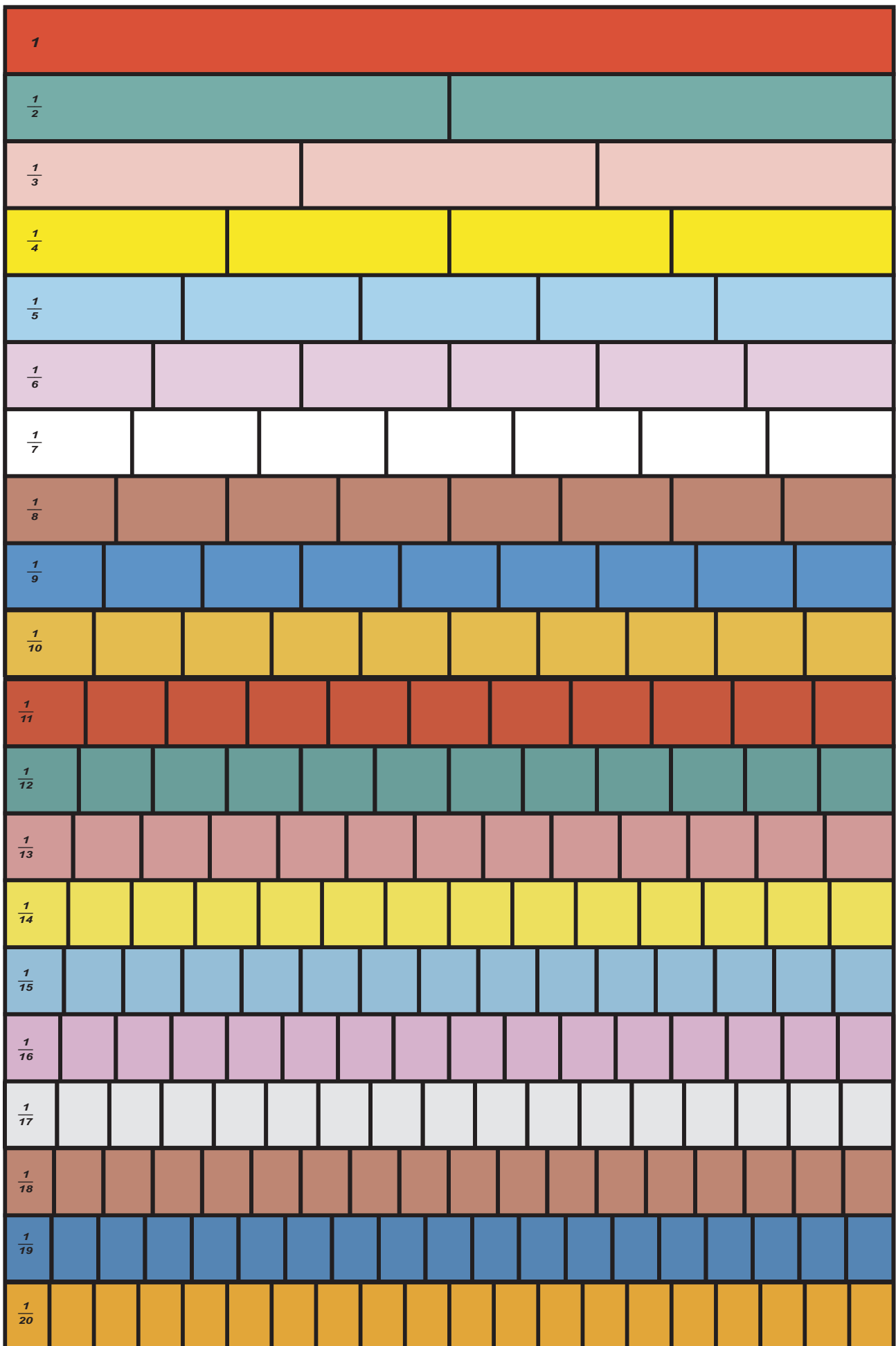
Roman Numerals is an incremented 15-exercise set that covers Roman Numeral–Arabic values up to 3000. Early exercises emphasize basic equivalencies as well as the similarly with base 10 expanded form. For example $139 = 100 + 30 + 9$ Arabic and $C + XXX + IX$ Roman (CXXXIX).

8 <small>Roman 12A</small>	VIII <small>Roman 12A</small>	119 <small>Roman 12B</small>	CXIX <small>Roman 12B</small>
36 <small>Roman 12A</small>	XXXVI <small>Roman 12A</small>	148 <small>Roman 12B</small>	CXLVIII <small>Roman 12B</small>
49 <small>Roman 12A</small>	XLIX <small>Roman 12A</small>	232 <small>Roman 12B</small>	CCXXXII <small>Roman 12B</small>
65 <small>Roman 12A</small>	LXV <small>Roman 12A</small>	250 <small>Roman 12B</small>	CCL <small>Roman 12B</small>
93 <small>Roman 12A</small>	XCIII <small>Roman 12A</small>	349 <small>Roman 12B</small>	CCCXLIX <small>Roman 12B</small>
105 <small>Roman 12A</small>	CV <small>Roman 12A</small>	380 <small>Roman 12B</small>	CCCLXXX <small>Roman 12B</small>

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 _____
<small>Write the Roman numeral that corresponds with the standard numeral given. The first one is done for you.</small>	
8	VIII
36	
49	
65	
93	
105	
119	
148	
232	
250	
349	
380	
<small>Conceptual Learning Materials Insights into Math Concepts www.conceptuallearning.com Copyright 1993, 1998 Diane M. Keesek</small>	

Name _____	Date _____
<small>Write the Arabic (standard) numeral that corresponds with the Roman numeral given. The first one is done for you.</small>	
VIII	8
XXXVI	
XLIX	
LXV	
XCIII	
CV	
CXIX	
CXLVIII	
CCXXXII	
CCL	
CCCXLIX	
CCCLXXX	
<small>Conceptual Learning Materials Insights into Math Concepts www.conceptuallearning.com Copyright 1993, 1998 Diane M. Keesek</small>	



Fraction Concepts (11 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 _____



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



$$\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$$

**One pencil plus another pencil equals two pencils. Likewise, $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$.
Three video games plus two video games equals five video games. In the same way $\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$. To add or subtract fractions with the same denominators, merely add or subtract the numerators. The denominators remain the same.**

Add or subtract the following fractions. Simplify answer when possible.

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

10) $\frac{2}{7} + \frac{1}{7} + \frac{3}{7} = \underline{\hspace{2cm}}$

2) $\frac{4}{6} + \frac{1}{6} = \underline{\hspace{2cm}}$

11) $\frac{5}{6} - \frac{3}{6} = \underline{\hspace{2cm}}$

3) $\frac{1}{8} + \frac{3}{8} = \underline{\hspace{2cm}}$

12) $\frac{2}{9} + \frac{3}{9} + \frac{3}{9} = \underline{\hspace{2cm}}$

4) $\frac{5}{9} + \frac{1}{9} = \underline{\hspace{2cm}}$

13) $\frac{7}{9} - \frac{5}{9} = \underline{\hspace{2cm}}$

5) $\frac{1}{7} + \frac{3}{7} = \underline{\hspace{2cm}}$

14) $\frac{2}{8} + \frac{1}{8} + \frac{2}{8} = \underline{\hspace{2cm}}$

6) $\frac{1}{5} + \frac{4}{5} = \underline{\hspace{2cm}}$

15) $\frac{4}{5} - \frac{1}{5} = \underline{\hspace{2cm}}$

7) $\frac{1}{3} + \frac{2}{3} = \underline{\hspace{2cm}}$

16) $\frac{2}{10} + \frac{1}{10} + \frac{3}{10} = \underline{\hspace{2cm}}$

8) $\frac{3}{6} + \frac{2}{6} = \underline{\hspace{2cm}}$

17) $\frac{5}{6} - \frac{1}{6} = \underline{\hspace{2cm}}$

9) $\frac{4}{8} - \frac{3}{8} = \underline{\hspace{2cm}}$

18) $\frac{8}{9} + \frac{1}{9} = \underline{\hspace{2cm}}$

Decimal Introduction (6 of 20)

(cardstock, reproducible blackline masters, & digital downloads)

Decimal Introduction is full-page bridging material encompassing two- and three-place decimals: fraction to decimal, decimal to fraction, comparisons, rounding, simple operations, and answer keys. It is available in all three formats.

Name _____ Date _____

Convert to decimal

- 1) $3 \frac{8}{10} = 3.8$
- 2) $3 \frac{8}{100} =$ _____
- 3) $44 \frac{2}{10} =$ _____
- 4) $44 \frac{22}{100} =$ _____
- 5) $44 \frac{2}{100} =$ _____
- 6) $\frac{11}{100} =$ _____
- 7) $\frac{11}{10} =$ _____
- 8) $\frac{62}{100} =$ _____
- 9) $\frac{3}{100} =$ _____
- 10) $\frac{3}{10} =$ _____
- 11) $9 \frac{6}{10} =$ _____
- 12) $9 \frac{6}{100} =$ _____
- 13) $9 \frac{60}{100} =$ _____
- 14) $9 \frac{63}{100} =$ _____
- 15) $1 \frac{17}{10} =$ _____
- 16) $1 \frac{17}{100} =$ _____
- 17) $3 \frac{88}{100} =$ _____
- 18) $3 \frac{2}{10} =$ _____

Introduction to Decimals 6