Teacher notes Numbers & Operations - Grade 6

Many of these stations have been designed as an assessment tool for the objectives of the new curriculum. However, teachers may choose to use these as introductory activities, practise activities or centre activities.

These stations lend themselves well to the adaptive dimension of the Core Curriculum. See <u>The Adaptive Dimension in the Core Curriculum</u> available in all schools. The document can be ordered from the Book Bureau (#1655). Changes can be made to the context or to the level of difficulty to adapt to the individual needs in your classroom.

Similar stations can be created by using activities from textbooks and other resources. Binders that accompany manipulatives are an excellent source of ready-made activities.

A few excellent resources are:

Name	Distributor	Where to Order	Order #	Cost
101 winning ways Base Ten Blocks (Active Learning Series)	Exclusive	Book Bureau	6024	\$31.65
Pattern Blocks 4-6 (Active Learning Series)	Exclusive	Book Bureau	1668	\$27.90
The Geoboard Collection 4-6 (Active Learning Series)	Exclusive	Book Bureau	826	\$29.90
Fraction Blocks Binder (Active Learning Series)	Exclusive	Book Bureau	7192	\$32.00
Twenty Thinking Questions Base ten blocks (3-6) (Creative Publications)	Addison-Wesley Publishers	Addison-Wesley Publishers	SC5-1-56107-797-6	\$30.80
Connections Grade 6 also recommended for Geo/Measurement (Creative Publications)	Addison-Wesley Publishers	Addison-Wesley Publishers	SC5-0-88488-773-1	\$30.75

Getting ready . . .

Station #1		umbers on a audio-cassette. and slowly repeating each nu	mber 3 times.
	a) 4 987 l	b) 100 001	c) 997
	,	e) 102 230 342	f) 1 billion
	g) 798.456 ł	one thousand and one	thousandth
	i) 5 tenths j	10 million 3 thousand	six
	k) one third l) five tenths	
	m) 32 hundredths	n) 11 thousand o	ne hundred twenty one
	Add any other number	that you wish	
		o not use "and" as we read la hundred two" NOT "one l	
	2. NO	commas! "2000" and N	OT "2,000"
	3. 2000) but we use spaces for more	digits - 20 000
	hours of the teacher's ti and this is a good way t	to let them hear and write wh	e difficulty with large numbers at they hear.
		f the card, write several ad orally on cassette.	numbers that you
Station #2	Make place value cards	such as	
	two hun	dred forty se	ven
		resent each number in a sepa he number and the statement:	rate envelope.
	89 247:	The missing card is	
	On their answer sheets	students should write:	
	"The missing n	umber is eighty nine thousand	d".
Station #3	Make cards as above us	sing decimal numbers.	
Station #4	Student writing: Invent	use some that you have that v	ount number and add to check.

Cheque #	
Pay to the order of	
	DOLLARS 100
	Signature

- **Station** #5 Great way to integrate the resource centre with mathematics.
- **Station #6** Use thin drinking straws for uprights. Cut these straws about 15 cm in length.

Use larger drinking straws for the beads. (Straws from McDonalds work well and all you need to do is ask for straws and they are usually very generous. Larger drinking straws are sometimes available at other fast food outlets or at department and at bargain stores.)

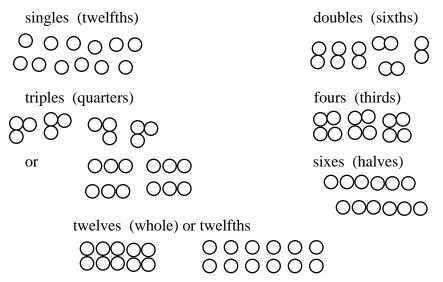
Cut them into 1-1.5 cm pieces.

Insert long thin straw into a small piece of plasticine.

Store each set in self sealing plastic bags.



- **Station #7** For fraction strips have students make their own by paper folding or copy the patterns provided with the activity. Fraction Stax are available from Addison-Wesley Publishers.
- **Station #8** Adding machine rolls can be purchased in bulk at office supply stores. They go a long way and are good for a variety of projects...
- **Station** #9 To prepare egg cartons: Use several cartons cutting one of each like the following:



Differentiate each fraction by painting each one a different color. You can also place a different color dot with a felt marker.

Station #11 For fraction strips have students make their own by paper folding

or copy the patterns provided with the activity. Fraction Stax are available

from Addison-Wesley Publishers.

Station #12 Two sided counters can be purchased commercially or made cheaply

by placing one layer of white lima beans in a box and spray painting

one side.

Let dry and you will have buckets of two sided counters.

Station #13 Collect newspaper articles etc. that involve fractions.

Station #14 See previous stations for instructions for egg cartons.

For fraction strips have students make their own by paper folding

or copy the patterns provided with the activity.

You may wish to cut and paste so that you have many of the same fractions

on one page and then you can copy each fraction a different color

Station #15 You can purchase fraction materials commercially or you can use the

the patterns provided with the station to make some out of cardboard or

plastic covers from duo-tangs (or from foam poster board)

Station #16 Cut paper strips with a paper cutter and store in a box or boxes

ready for student use.

Station #17 Again students can make their own fraction strips or you may want

to use the ones provided for station 15.

Station #20 & 21 Students will need a fraction calculator recommended in the

curriculum guide. These calculators are sold by Addison-Wesley

and are also available from the Book Bureau.

ACTIVITY SHEET

Numbers and Operations # 7

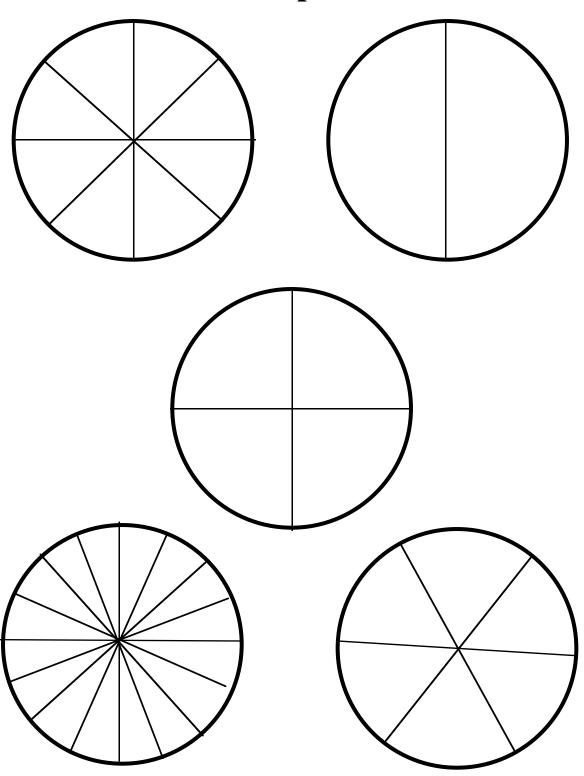
<u>2</u> 3	4 6	5 10	110
<u>1</u> 5	8	<u>2</u> 6	<u>3</u>
8 10	3 4	1/3	4 8
710	<u>2</u>	<u>6</u> 10	<u>7</u>

close to 0	close to $\frac{1}{2}$	close to 1

Fraction Strips 7									

Fraction Strips 10							

Numbers and Operations 10



Numbers and Operations # 11

MULTIPLICATION TABLE

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Fraction Strips								
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