GUIDE TO BLACK-LINE MASTERS

All blackline masters (bound separately) are to be photocopied.

Worksheets: Blackline Masters 1–61

The corner containing the worksheet number should be cut off the master before the master is copied to eliminate any possible perceptual confusion for the children.

The smiling face at the top of some of the worksheets help the children position the page correctly: When the face is looking at the child the page is right side up.

The chart on pages 387–396 is a guide for teachers to refer to as they prepare Worksheets 1–61. The instructions explain any special steps that are necessary. The text references refer to each page in the text where that worksheet may be used.

Observation Sheets: Blackline Masters I-IX

The Observation Sheets are informal record-keeping devices used to observe children's progress during certain key lessons. These pages should be duplicated and then each copy used to record observations of about six children at a time. By focusing attention on a small group of children the teacher is able to observe many details of individual children's progress which otherwise may be overlooked.

The names of the children being observed are written on the slanted lines at the top of the Observation Sheets. Once the observation is made, the information may be saved on these sheets, transferred to individual children's records, or used for reference in recording progress on the Assessment of Skills.

Assessment of Skills: Blackline Masters A1-A16

by Kathy Richardson and Mary Baratta-Lorton

The Assessment of Skills is useful when a more formal and more inclusive record-keeping device than the Observation Sheets is needed.

The goal of the Observations Sheets and the Assessment of Skills is the same: to point out items or children that need closer observation and thereby focus the teacher's attention on those items and children. The end result is always to give the classroom teacher greater knowledge of the developmental levels of the children in hisorher care. Filling in the sheets is a by-product of this goal, not the goal itself.

The Assessment of Skills should in no way be thought of as ends in themselves or as the curriculum of MATHEMATICS *THEIR* WAY. They are merely an organizational tool which the teacher uses to record observations of individual children's growth and development in mathematics.

A Xerox copy of the Assessment pages (Masters A1–A16) will enable you to retain the original for making additional copies in future years. Some teachers tape the pages together to make one continuous chart to post on a wall; others punch holes in the pages and put them in a binder. When you have made a copy of Master A1, write the names of the children in your class in the spaces provided along the left side. Look at each sheet and determine for yourself the items you wish to assess. The first step is to fill in the information you remember from previously observing your children at work. The purpose of this is to focus your attention on how much you already know about each child. Those items you are unsure of should now be observed and this additional information added to the Assessment Sheets.

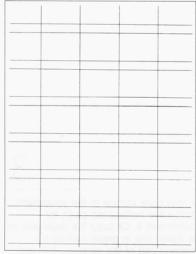
Some teachers find it helpful to type an additional list of names on a piece of tagboard exactly corresponding to the spacing on Master A1, which the teacher uses on subsequent pages as a help in finding the appropriate place to record each child's information.

A child who is unsuccessful with an experience assessed on the sheets does not need to work on that same activity over and over. Sheorhe needs an opportunity to see the concept represented in a variety of experiences and situations. This variety will help the transfer of knowledge and skill into usage and understanding in the child's life. This is the level the Assessment of Skills emphasizes.

Worksheet Chart

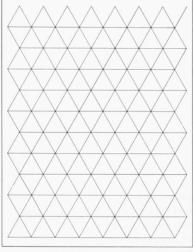
Worksheet Chart

Composite sheet for Photocopied Pictures



Mount a picture of each child in class on this sheet and have the children write their name under their picture. See p. 365
Page: 35, 38, 40, 78, 87, 122, 148, 152, 156, 162, 219, 228, 332, 342, 358

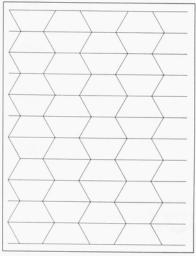
2 Pattern Block Green Triangle Shape



Run off on green construction paper. Give each child 2-3 rows at a time to cut out.

Page: 13, 38, 177, 349

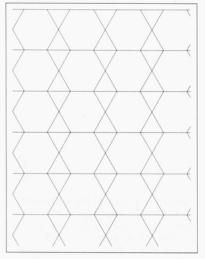
3 Pattern Block Red Trapezoid Shape



Run off on red construction paper. Give each child 2-3 rows at a time to cut out.

Page: 13, 38, 177, 349

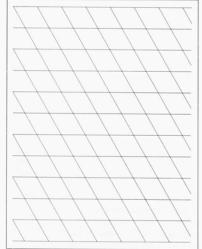
4 Pattern Block Yellow Hexagon Shape



Run off on yellow construction paper. Give each child 2-3 rows at a time to cut out.

Page: 13, 38, 177, 349

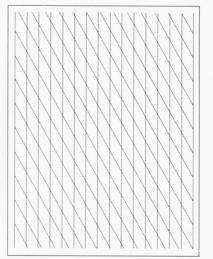
5 Pattern Block Blue Diamond Shape



Run off on blue construction paper. Give each child 2-3 rows at a time to cut out.

Page: 13, 38, 177, 349

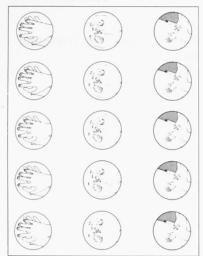
6 Pattern Block Thin Diamond Shape



Run off on manilla drawing paper. Give each child 2-3 rows at a time to cut out.

Page: 13, 38, 177, 349

7 Unifix Snap and Clap Pattern Pictures



Cut apart and paste down to make a variety of patterns.
Page: 33

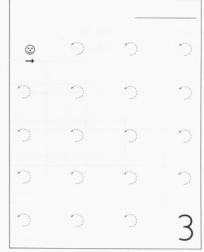
8 Writing Paper (Number 2)



After Thermofaxing (which copies the first part of the number with purple ink) place the master directly on top of a green duplicator master and trace a dotted line making the second part of the number (not shown).

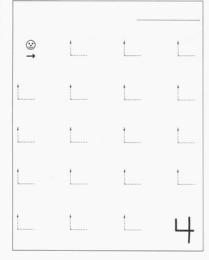
Page: 51

9 Writing Paper (Number 3)



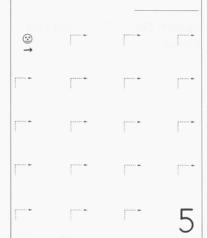
If you have access to the equipment, follow the instructions given for worksheet 8. Or copy the page and add a dotted line in green making the second part of the numeral. Numeral writing paper in color is available from the Center for Innovation in Education. Page: 51

10 Writing Paper (Number 4)



If you have access to the equipment, follow the instructions given for worksheet 8. Or copy the page and add a dotted line in green making the second part of the numeral. Numeral writing paper in color is available from the Center for Innovation in Education. Page: 51

11 Writing Paper (Number 5)



If you have access to the equipment, follow the instructions given for worksheet 8. Or copy the page and add a dotted line in green making the second part of the numeral. Numeral writing paper in color is available from the Center for Innovation in Education. Page: 51

12 Writing Paper (Number 6)



If you have access to the equipment, follow the instructions given for worksheet 8. Or copy the page and add a dotted line in green making the second part of the numeral. Numeral writing paper in color is available from the Center for Innovation in Education. Page: 51

13 Writing Paper (Number 7)



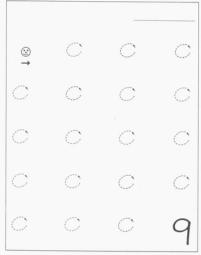
If you have access to the equipment, follow the instructions given for worksheet 8. Or copy the page and add a dotted line in green making the second part of the numeral. Numeral writing paper in color is available from the Center for Innovation in Education. Page: 51

14 Writing Paper (Number 8)



If you have access to the equipment, follow the instructions given for worksheet 8. Or copy the page and add a dotted line in green making the second part of the numeral. Numeral writing paper in color is available from the Center for Innovation in Education. Page: 51

15 Writing Paper (Number 9)



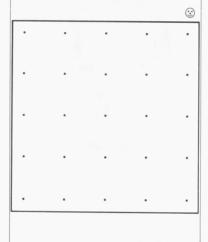
If you have access to the equipment, follow the instructions given for worksheet 8. Or copy the page and add a dotted line in green making the second part of the numeral. Numeral writing paper in color is available from the Center for Innovation in Education. Page: 51

16 Writing Paper (Numbers 2–9)



If you have access to the equipment, follow the instructions given for worksheet 8. Or copy the page and add a dotted line in green making the second part of the numeral. Numeral writing paper in color is available from the Center for Innovation in Education. Page: 51

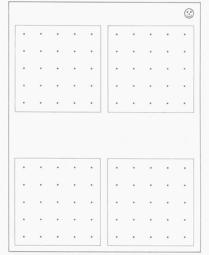
17 Large Geoboard Dot Paper



Use as the initial experience for the child making records of geoboard designs.

Page: 13, 36, 37, 47, 81, 82, 177

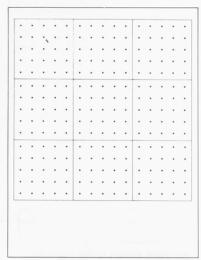
18 Medium Geoboard Dot Paper



Use to provide additional challenge when the child is successful copying geoboard designs on the large geoboard dot paper.

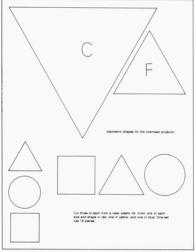
Page: 13, 81, 82, 351

19 Small Geoboard Dot Paper

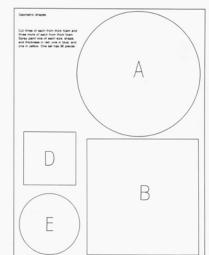


Use to provide additional challenge when the child is successful copying geoboard designs on the medium geoboard dot paper.
Page: 13, 81, 82, 351

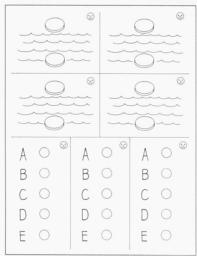
20–21
Pattern for Making
Geometric Shapes*



See appendix, p. 361. Page: 59, 70, 76



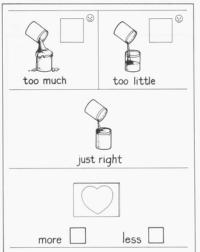
22 Water Timer/Measuring Strings Records



Cut records apart on the paper cutter and place in small boxes.

Page: 123/135

23
Measuring with Jars/The
Hole in the Box Records

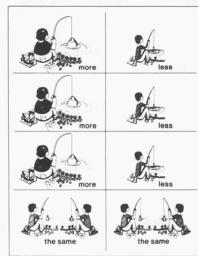


Cut records apart on the paper cutter and place in small boxes.

The child records the letters labeling the jars used for measuring on the recording sheet.

Page: 131, 239/129

24 More-Less-Same Pictures



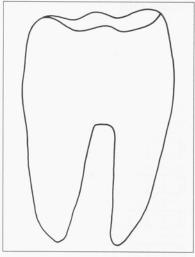
Use for making more-less spinners,* and more-less-same cards (run off on tagboard).

Page: 116, 118, 127

Run off 12 copies on construction paper. Decorate with crayons and write the name of each month. Cover with clear contact paper.

Page: 156

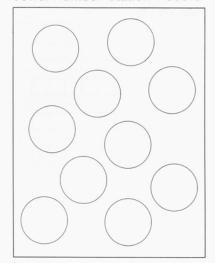
26 Tooth Graph Picture



Run off 12 copies on construction paper. Write the name of each month. Cover with clear contact paper.

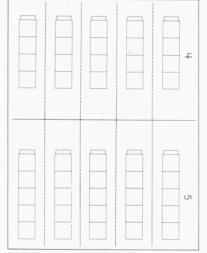
Page: 156

27 Jewel Number Station Record



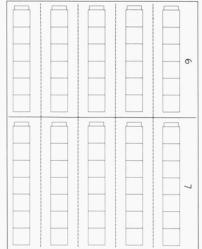
Page: 178, 239

28 Unifix Number Station Record (4-5)



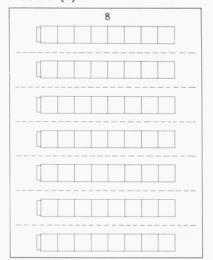
Page: 178, 239

29 Unifix Number Station Record (6-7)



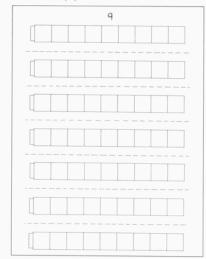
Page: 178, 239

30 Unifix Number Station Record (8)



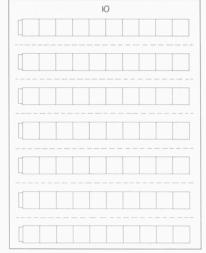
Page: 178, 239

31 Unifix Number Station Record (9)



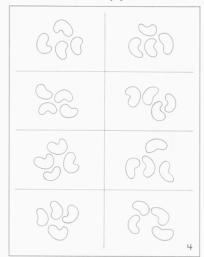
Page: 178, 239

32 Unifix Number Station Record (10)



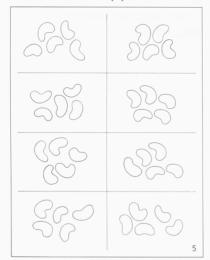
Page: 178, 239

33 Two-Sided Bean Number Station Record (4)



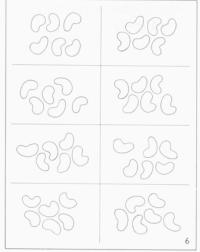
Page: 178, 239

34Two-Sided Bean Number Station Record (5)



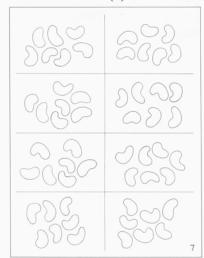
Page: 178, 239

35 Two-Sided Bean Number Station Record (6)



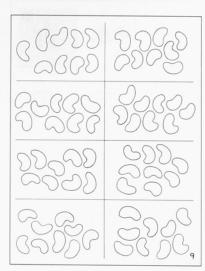
Page: 178, 239

36 (37 not shown) Two-Sided Bean Number Station Record (7)



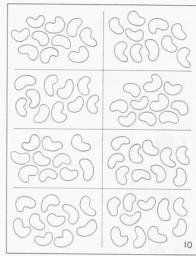
Page: 178, 239

38 Two-Sided Bean Number Station Record (9)



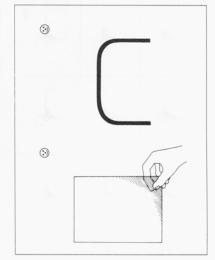
Page: 178, 239

39 Two-Sided Bean Number Station Record (10)



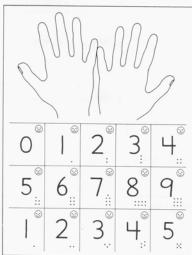
Page: 178, 239

40 Peek Through the Wall/Lift the Bowl Connecting Level Gameboards



Run off on tagboard, cut apart. Page: 221, 222

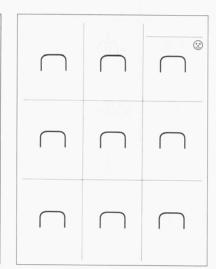
41 The Hand Game Connecting Level Gameboard with Numerals



apart. (A double set of the numerals 1-5 are included to make problems such as 3+3, 5+5, etc.) Page: 222

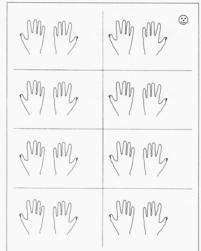
Run off on tagboard. Cut numbers

42 Lift the Bowl Symbolic Level Worksheet



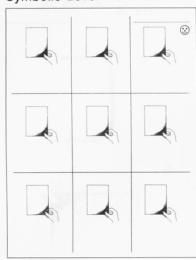
Page: 237

43 The Hand Game Symbolic Level Worksheet



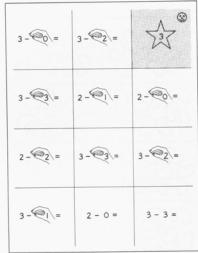
Page: 237

44Peek Through the Wall
Symbolic Level Worksheet



Page: 238

45 Subtraction Problems (0–3)



Page: 241

46 Addition Problems (0–3)

+ 1	\(\int_3/+\(\cdot\)/=	<u>^3</u> ;
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	+ 0	+ 2
+ 1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	+ 0
\(\int\)+\(\int\)2\(\frac{1}{2}\)=	+ 0	3 + 0 =

Page: 241

47 Subtraction Problems (0-4)

42\=	4-@1/=	
33\=	32 =	4
43\=	4	3 - 0 =
3 - 1 =	4 - 2 =	4 - 3 =

Page: 241

48 Addition Problems (0-4)

+ 2	\(\int_1\)+\(\int_3\)/=	☆*
(M)+(M)=	+ 0	+ 1
+ 3	\(\int_2\)+\(\int_2\)=	+ 2
3 + 1 =	+ 2	1+1=

Page: 241

49 Subtraction Problems (0-5)

5 - 4 =	4- 	♦
4-60/=	5-@3\=	52\=
3	5	4 - 3 =
5 - 5 =	5 - 3 =	5 - 4 =

Page: 241

50 Addition Problems (0–5)

+ 2	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	>5 ⊗
2/+/3/=	+ 4	+ 1
+ 1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	+ 2
5 + O =	+ 5	1+4=

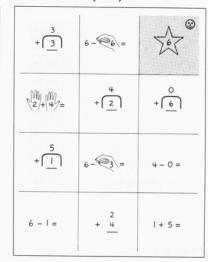
Page: 241

51 Addition and Subtraction Problems A (0-6)

6 - 65\=	5 - 3\=	₹
$\sqrt{3}$ + $\sqrt{3}$ =	63\=	+ 2
5 -	\(\int_2/+\)\(\int_3//=\)	3 - 1 =
6 + 0 =	6 - 2 =	6 - 4 =
	2.2	E & 8 E 1000 C

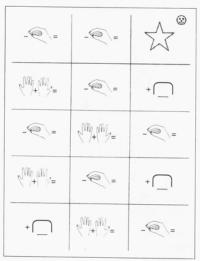
Page: 241

52 Addition and Subtraction Problems B (0-6)



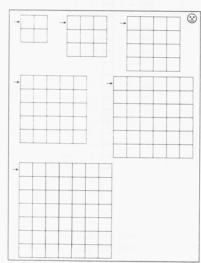
Page: 241

53 Master Worksheet for Creating Additional Addition and Subtraction Problems



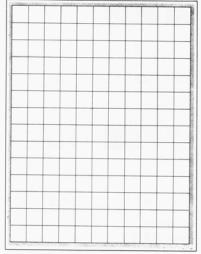
Page: 241

54 Names/Numbered Squares Recording Sheet



Page: 243/270

55 Surrounding Patterns Recording Sheet



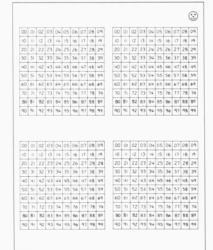
Have the children tape two worksheets together. Page: 266

56 Large 0-99 Matrix



Page: 314

57 Small 0-99 Matrices



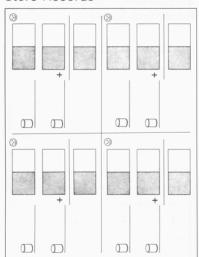
Page: 314, 344

58 Agree-Disagree Record



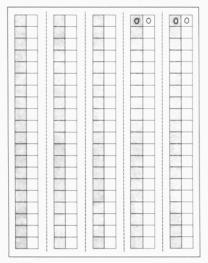
Page: 132, 239, 307, 310

59Determining Prices/The Store Records



Cut apart. Page: 313/317

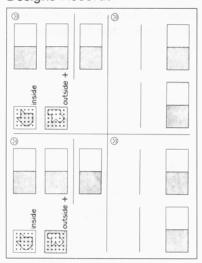
60 Place Value Strips



Cut apart. Keep the strips with faces and zeros at the top separated from the blank strips.

Page: 300, 304, 314

61 Unifix Stacks/Geoboard Designs Records



Cut apart. Page: 316/320