Target Grids - Sets 1 to 4

48 Grids

What Are Target Grids?

Target grids (sometimes called target boards) are pages of numbers or other mathematical items arranged in a grid. The grid can be any size, but four by three or five by four are typical sizes. The grids in the four sets featured here are all four by three.

Each grid has been chosen to focus upon a specific aspect of number but they can, of course, be used for whatever purpose you wish.

Set 1
This set focuses upon number bonds and place value. It is aimed at children in years 1- 3.

Set 2
This set contains mixed or 'random' numbers. These are numbers with no obvious property. However, in some cases 'helpful' numbers have been included. This set may be used with children of any age.

Set 3
This set covers measures. The first few grids in the set cover length and mass and the remainder cover time with activities ranging from clock pictures showing o'clock times to digital and twenty four hour clocks.

Set 4
This set covers fractions, decimals and percentages. The first few cover the fractions needed for key stage one in words, pictures and symbols. Later grids in the set cover a wider range of fractions and both one- and two-digit decimals.

Reference Pages
On the next four pages you will find small copies of all of the grids, with a brief description of what the grid covers. It is recommended that you print out all five pages in this file and keep them for planning and reference.

Using Target Grids

1 During an oral/mental activity a grid can be used to ask either closed or open-ended questions. A set of questions or prompts is available for Set 1 to give you some idea of the scope and flexibility offered by Target Grids. These are designed to offer some thoughts on the use of the grid. They are not intended to exhaust the possibilities.

2 Target Grids provide material for further stimulus or development or give you the opportunity to extend children. You could, for example, provide every child with the same grid, but use it in different ways with different children. Questions can be differentiated to meet the needs of individual children.

3 When questions are answered, cells may be covered with blank cards or the answer may be given directly. If the cells are to be covered then the grid could be used for 'bingo' type games.

4 If the grids are used for 'bingo' or 'cover-up' activities, it may be a good idea to make sets of coloured number cards by cutting up a Target Grid and use these cards to cover appropriate numbers on a white grid. With this method you can create a lot of matching activities.

5 By using sets of number cards from elsewhere on Numeracy Resources CD, you can make the grids even more versatile. For example, fraction cards from the the main resources may be used. These have a wide range of additional fractions on them. You can use these to make, for example, pairs which sum to 1, or equivalent fractions.

6 You will notice that a small copy of each grid appears in the corner for reference purpose, if the numbers are covered.

7 Target Grids may be used as place mats as part of a main activity. When used this way it may be helpful to enlarge them to A3 size for a group to use.

8 As a plenary activity Target Grids offer opportunities to recap on the objectives of a lesson and for children to share results.

Target Grids Set 1 — Numbers Bonds and Place Value

1 Number bonds to 10 or 12.

3	6	8	2
1	9	0	12
10	4	7	5

2 Numbers bonds to 20.

9	12	14	7
6	8	15	11
20	5	4	2

3 Addition and subtraction of small two-digit numbers.

12	6	8	4
13	5	9	15
11	14	7	16

4 Addition and subtraction of small two-digit numbers.

12	5	10	24
3	16	8	4
2	15	6	18

5 Multiplication and division of small numbers.

12	30	25	18
36	4	15	3
2	27	9	5

6 Even numbers for multiplication and division of small numbers.

4	10	2	18
6	14	20	24
22	8	12	16

7 Multiples of three.

3	12	9	6
36	24	18	30
15	21	27	33

8 Multiples of five.

5	25	50	75
15	30	45	60
20	40	80	100

9 Place value.

10	7	200	50
60	30	80	1
3	9	20	100

10 Place value.

100	50	7	10
70	6	300	40
1	500	90	2

11 The first twelve prime numbers.

17	29	3	13
31	37	2	7
5	11	19	23

12 Complements of 100.

25	63	36	48
52	75	27	37
64	61	39	73

Target Grids Set 2

1 Single-digit and simple two-digit numbers.

2	6	8	12
7	9	20	10
15	4	5	25

2 Single-digit and low two-digit numbers.

9	12	1	17
6	10	15	11
30	5	4	2

3 Single-digit and a range of low two-digit numbers.

12	6	8	4
23	15	19	15
11	14	27	16

4 A wide range of mainly two-digit numbers.

12	5	10	24
3	16	88	41
25	15	36	18

5 A range of mainly low two-digit numbers.

12	10	25	18
36	43	15	23
22	27	9	5

6 A range of mainly low two-digit numbers.

34	10	21	33
26	14	20	24
42	38	12	16

Mixed or Random Numbers

7 A range of two-digit numbers.

43	12	39	26
36	24	48	30
15	51	27	33

8 A wide range of two-digit numbers.

53	51	50	75
17	30	45	66
20	44	80	99

9 Two-digit and low three digit numbers.

10	77	120	150
60	30	80	88
83	99	144	100

10 Mainly low three-digit numbers.

100	256	307	120
703	126	361	240
169	512	96	199

11 A wide range of three-digit numbers.

173	259	392	133
319	372	401	507
555	101	198	234

12 A wide range of single-, two- and three-digit numbers.

5	205	16	4
64	256	25	125
1	625	899	873

1 Length
Metres and centimetres.

2m	10cm	80cm	1m
100cm	1cm	20cm	10m
4m	200cm	50cm	25cm

2 Length
Metres and kilometres.

5m	2km	1m	100m
200m	10m	1000m	1km
500m	50m	20m	2m

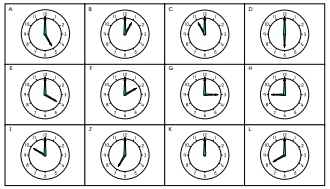
3 Length
Millimetres, centimetres and metres.

2cm	10mm	20mm	1m
100cm	1cm	20cm	100mm
10cm	50mm	1000mm	1mm

4 Mass
Grams and kilograms.

1g	100g	20g	1kg
2kg	10g	1000g	50g
500g	200g	5g	$\frac{1}{2}$kg

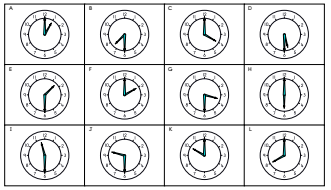
5 Time
Analogue clocks showing o'clock positions.



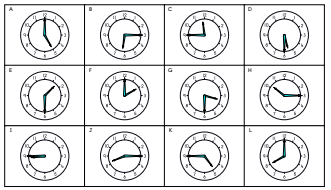
6 Time
Words for o'clock times.

three o'clock	nine o'clock	ten o'clock	seven o'clock
twelve o'clock	six o'clock	four o'clock	eight o'clock
five o'clock	one o'clock	eleven o'clock	two o'clock

7 Time
Analogue clocks showing a mixture of o'clock positions and half hour positions.



8 Time
Analogue clocks showing a mixture of all four quarters of the hour.



9 Time
A mixture of time duration up to two hours.

1hr	5min	10min	2min
20min	1min	30min	15min
90min	2hr	60min	120min

10 Time
A mixture of analogue and digital clocks

2:30	3:45		12:30
	5:15	4:00	
1:45	9:00		7:15

11 Time
A mixture of analogue and digital clocks.

1:35	2:20		7:25
	6:40	8:35	
12:50	3:25		4:45

12 Time
A mixture of words and digital clocks in twenty four hour format.

one thirty pm	2:45am	16:30	three thirty am
15:30	03:30	19:45	07:30
quarter to eight pm	9:30am	23:00	eleven forty five pm

Target Grids Set 4 — Fractions, Decimals and Percentages

1 Quarters and halves in pictures, symbols and words.

one whole	$\frac{1}{4}$		$\frac{1}{2}$
1		three quarters	one quarter
	one half	$\frac{3}{4}$	

2 Quarters and halves in pictures and symbols.

	$\frac{3}{4}$		$\frac{1}{2}$
		1	
$\frac{1}{4}$			

3 Quarters and halves in pictures and symbols, including some equivalent fractions.

$\frac{1}{2}$		$\frac{3}{4}$	
			$\frac{1}{4}$
	1		

4 Fifths and tenths in pictures and symbols, including some equivalent fractions.

$\frac{4}{5}$		$\frac{2}{10}$	
	$\frac{8}{10}$	$\frac{3}{5}$	$\frac{6}{10}$
$\frac{2}{5}$	$\frac{1}{5}$		$\frac{4}{10}$

5 Quarters, halves and thirds in pictures and symbols, including some equivalent fractions.

		$\frac{1}{3}$	$\frac{1}{4}$
$\frac{2}{3}$			
	$\frac{3}{4}$		$\frac{1}{2}$

6 Decimals (to one decimal place) and tenths, including some equivalent fractions.

$\frac{4}{10}$	0·2	$\frac{2}{10}$	$\frac{2}{5}$
0·8	$\frac{4}{5}$	$\frac{1}{5}$	0·4
$\frac{3}{5}$	$\frac{8}{10}$	0·6	$\frac{6}{10}$

7 Decimals (to one decimal place) and percentages, including some which are equivalent.

0·8	50%	70%	0·5
20%	0·3	0·2	80%
10%	0·7	30%	0·1

8 Decimals and pictures, including some equivalent fractions.

0·25	0·5		0·1
		0·4	
0·9		0·75	

9 Decimals, in the range 0 to 2, to one decimal place.

1·6	0·5	0·7	1·5
0·3	1·8	0·1	1·3
1·0	0·2	1·7	0·4

10 Decimals, in the range 0 to 10, to one decimal place.

0·5	9·9	4·2	1·3
7·3	1·6	5·5	3·0
9·1	8·7	6·5	0·1

11 Decimals, in the range 0 to 1, to two decimal places.

0·37	0·01	0·66	0·25
0·45	0·75	0·05	0·16
9·97	0·33	0·84	0·20

12 Decimals, in the range 0 to 10, to two decimal places.

8·18	0·99	2·22	6·14
4·17	2·76	0·30	1·02
7·02	0·01	0·03	9·97