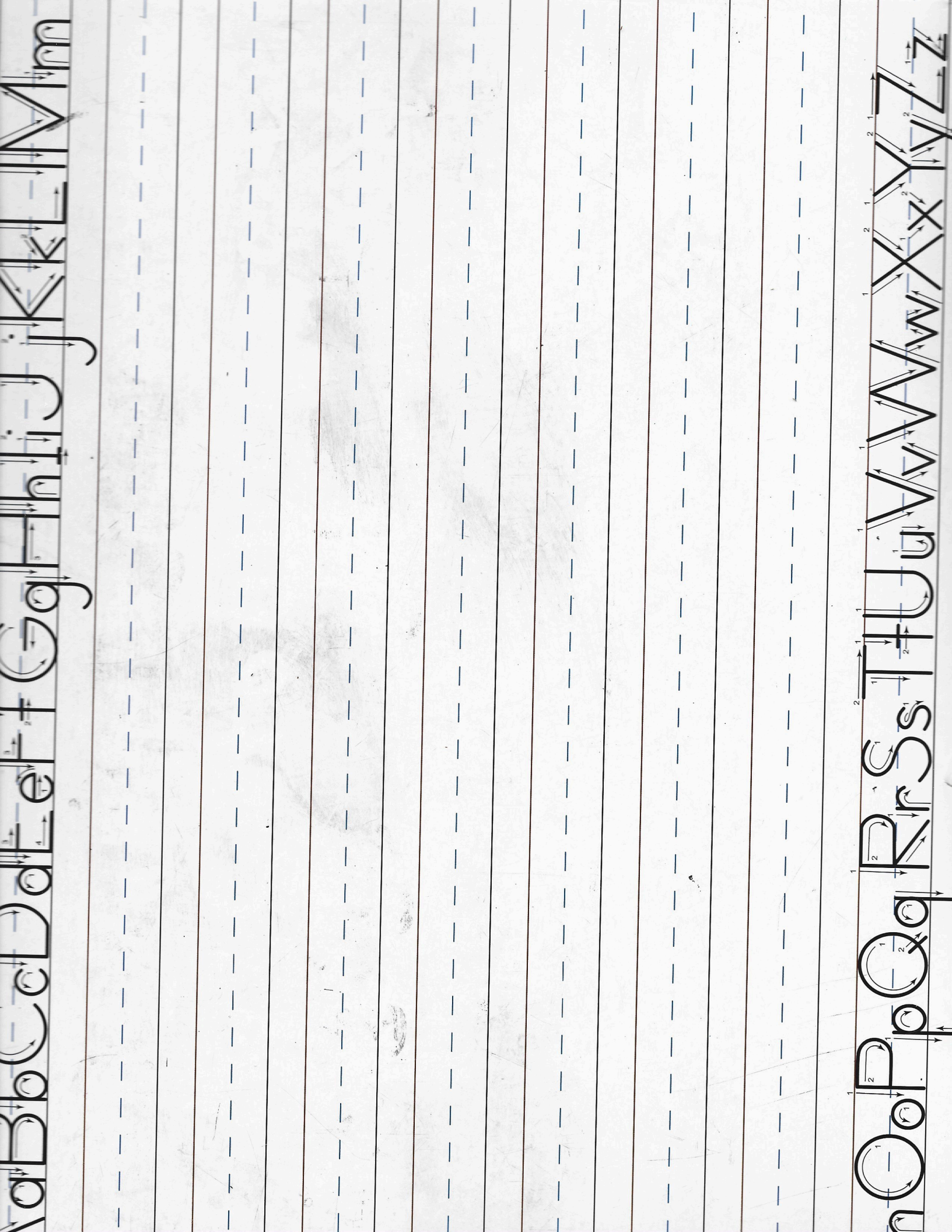
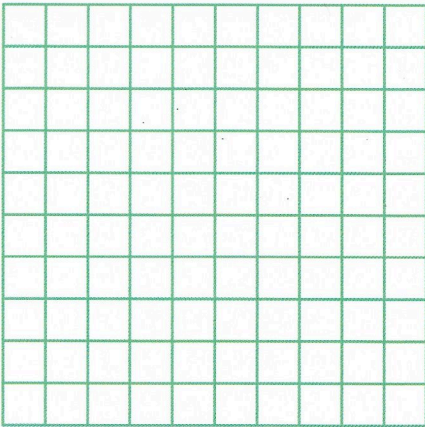
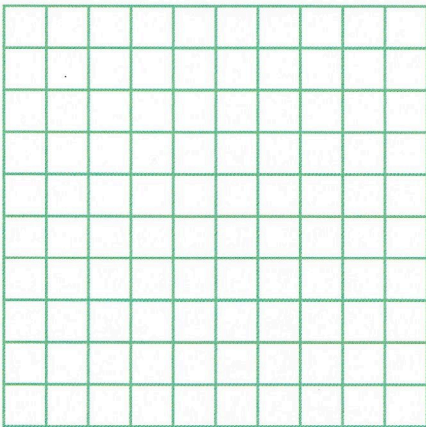
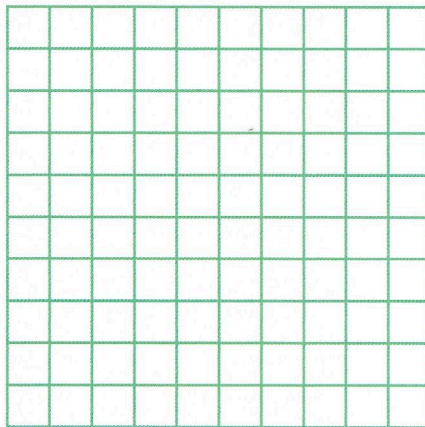
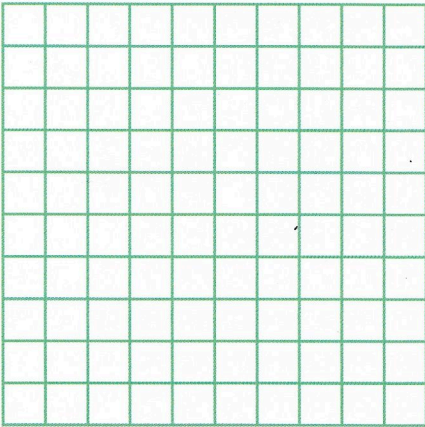
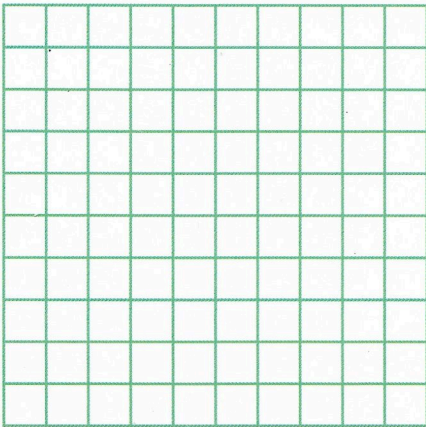
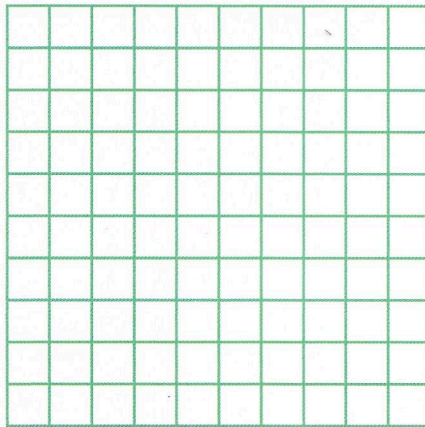
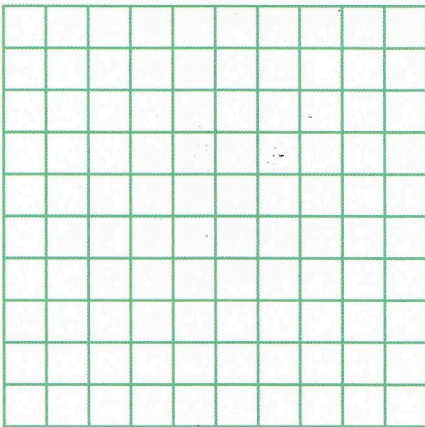
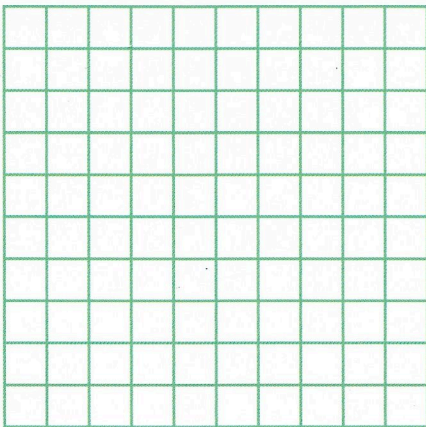
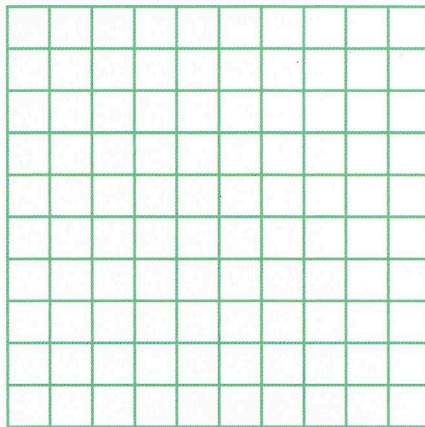
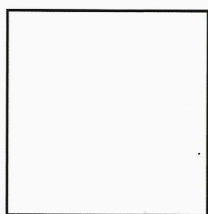
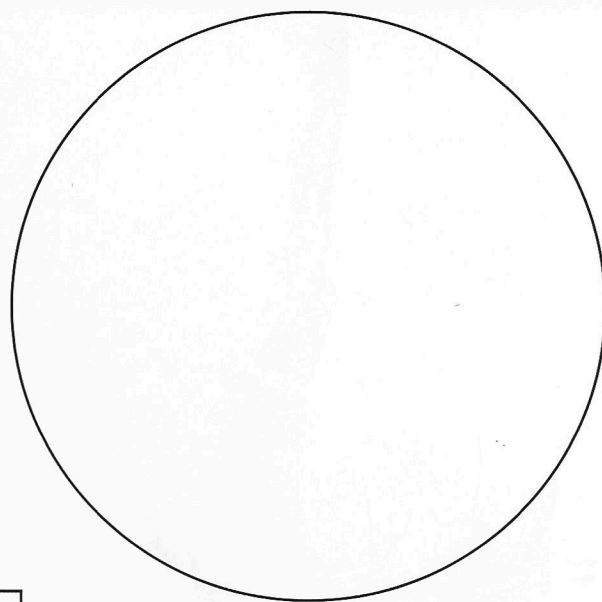
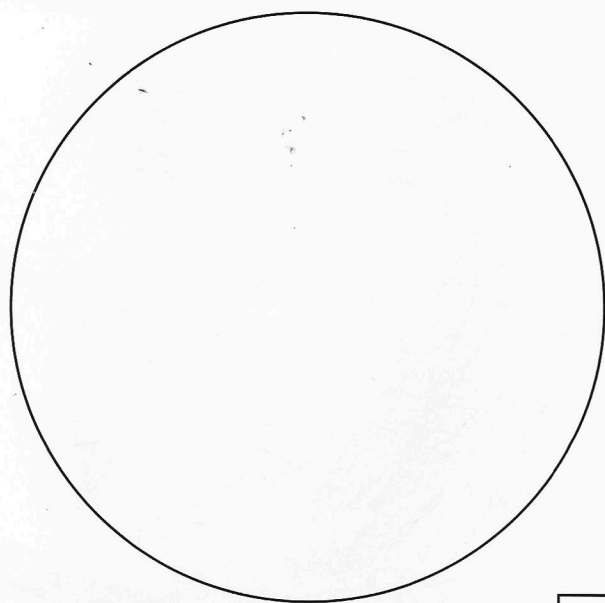




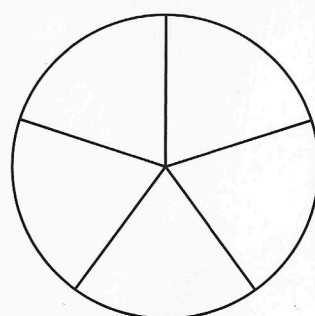
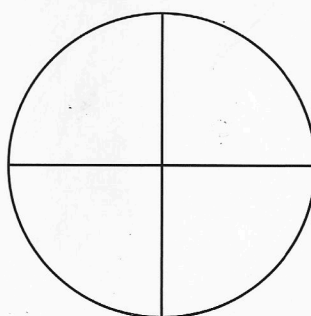
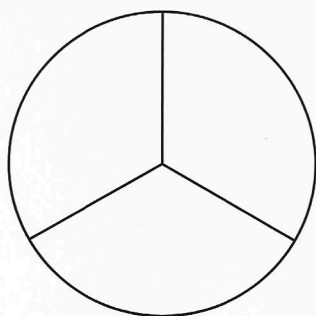
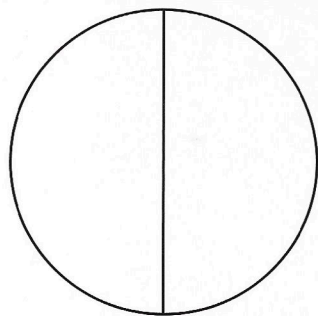
Arrays Station

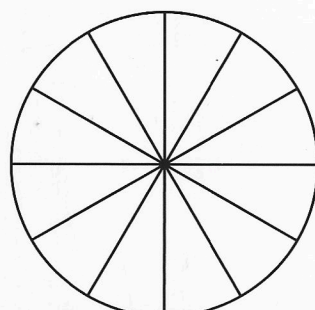
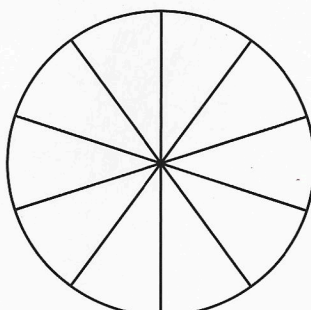
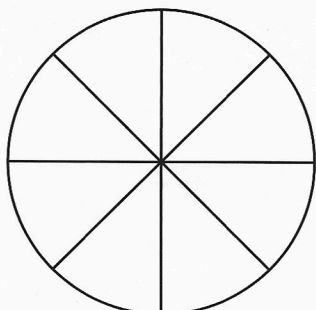
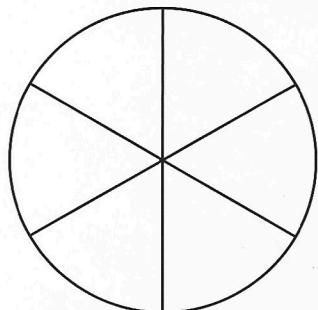
		
		
		

Compare Two Fraction

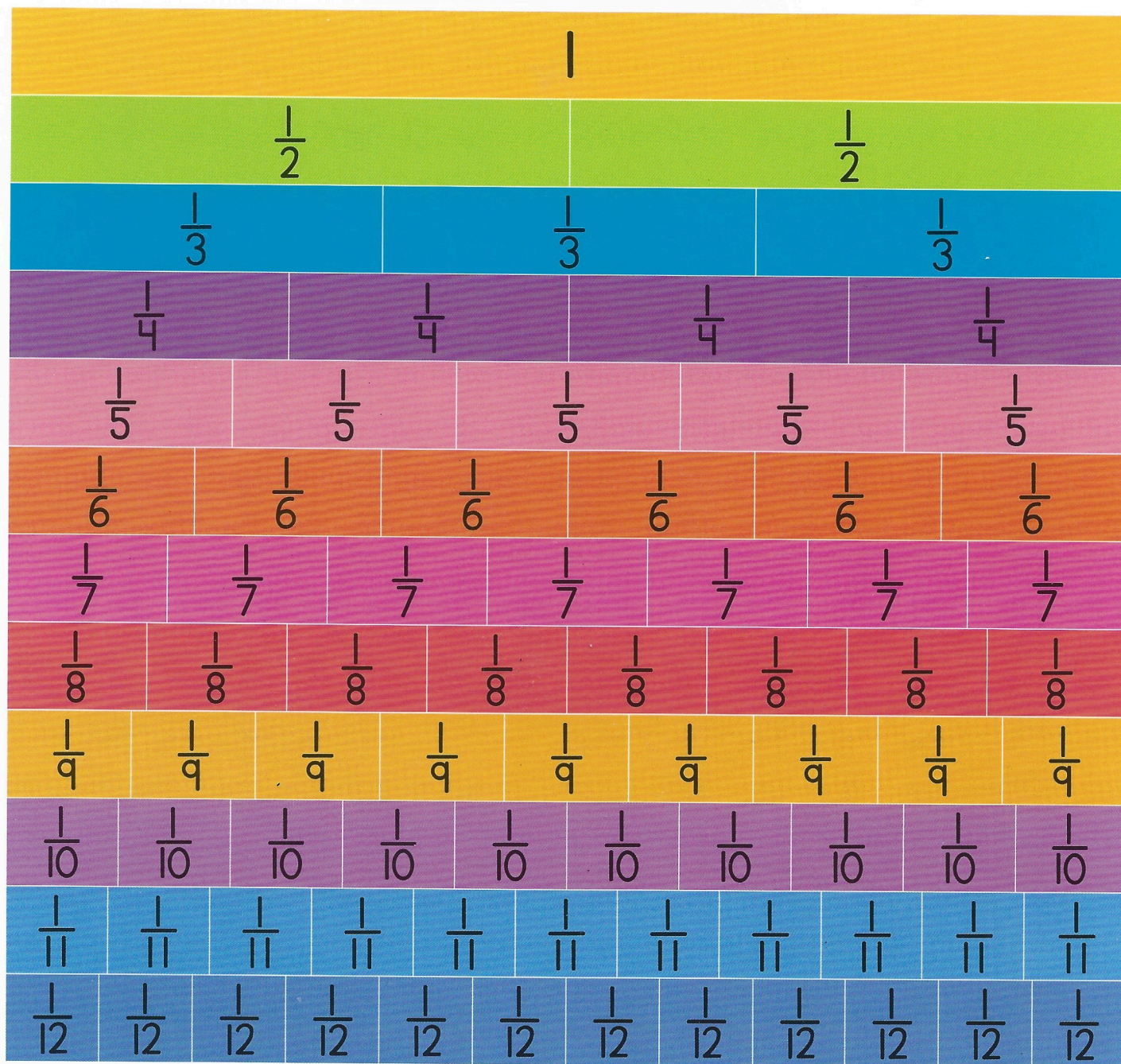


Writing Fraction





Fraction



Compare Two Fractions

Two horizontal light blue bars for writing the comparison.

_____ _____

Place Value

Billions			Millions			Thousands			Ones			Decimals		
	Hundred Billions			Hundred Millions			Hundreds Thousands			Hundreds			Tenths	
	Ten Billions			Ten Millions			Ten Thousands			Tens			Hundredths	
	Billions			Millions			Thousands			Ones			Thousandths	

Standard Form

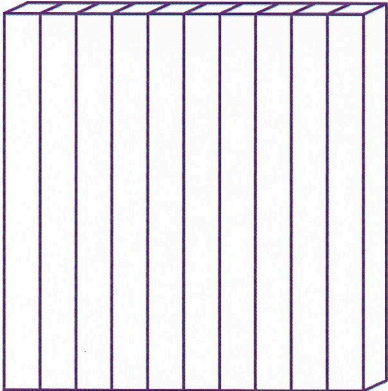
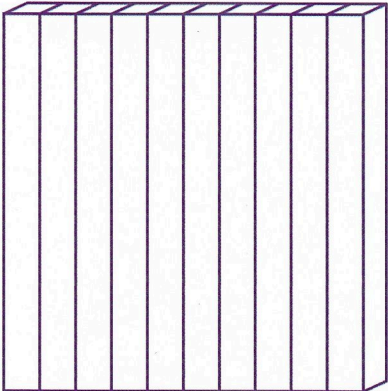
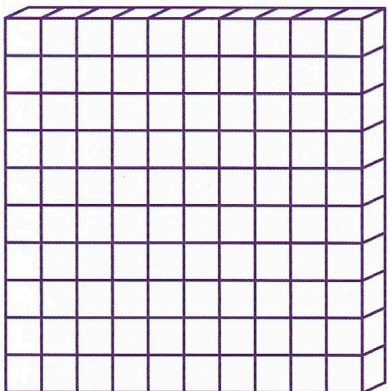
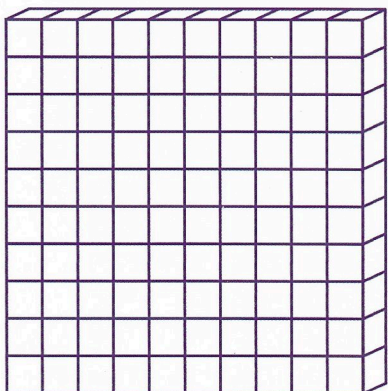
Expanded Form

Short Word Form

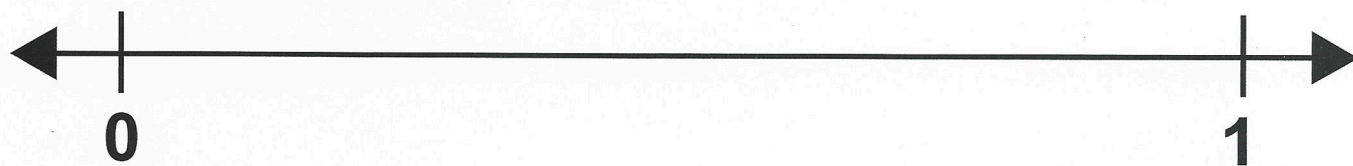
Word Form

	Hundred Billions	Billions
	Ten Billions	
	Billions	
	Hundred Millions	Millions
	Ten Millions	
	Millions	
	Hundreds Thousands	Thousands
	Ten Thousands	
	Thousands	
	Hundreds	Ones
	Tens	
	Ones	
	Tenths	Decimals
	Hundredths	
	Thousandths	

Relating Fractions to Decimals

Model	Fraction	Decimal	Word
			
			
			
			

Number line to Decimal



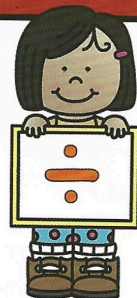
$\frac{\square}{\square}$ is the same as $\square \div \square = 0.$ _____

Fraction	Decimal	Percent
$\frac{\square}{\square}$	$= 0.$ _____	$=$ _____ %

Whole	Parts		
Ones	Tenths	Hundredths	Thousandths
Word From			



Division



÷1

1÷1=1
2÷1=2
3÷1=3
4÷1=4
5÷1=5
6÷1=6
7÷1=7
8÷1=8
9÷1=9
10÷1=10
11÷1=11
12÷1=12

÷2

2÷2=1
4÷2=2
6÷2=3
8÷2=4
10÷2=5
12÷2=6
14÷2=7
16÷2=8
18÷2=9
20÷2=10
22÷2=11
24÷2=12

÷3

3÷3=1
6÷3=2
9÷3=3
12÷3=4
15÷3=5
18÷3=6
21÷3=7
24÷3=8
27÷3=9
30÷3=10
33÷3=11
36÷3=12

÷4

4÷4=1
8÷4=2
12÷4=3
16÷4=4
20÷4=5
24÷4=6
28÷4=7
32÷4=8
36÷4=9
40÷4=10
44÷4=11
48÷4=12

÷5

5÷5=1
10÷5=2
15÷5=3
20÷5=4
25÷5=5
30÷5=6
35÷5=7
40÷5=8
45÷5=9
50÷5=10
55÷5=11
60÷5=12

÷6

6÷6=1
12÷6=2
18÷6=3
24÷6=4
30÷6=5
36÷6=6
42÷6=7
48÷6=8
54÷6=9
60÷6=10
66÷6=11
72÷6=12

÷7

7÷7=1
14÷7=2
21÷7=3
28÷7=4
35÷7=5
42÷7=6
49÷7=7
56÷7=8
63÷7=9
70÷7=10
77÷7=11
84÷7=12

÷8

8÷8=1
16÷8=2
24÷8=3
32÷8=4
40÷8=5
48÷8=6
56÷8=7
64÷8=8
72÷8=9
80÷8=10
88÷8=11
96÷8=12

÷9

9÷9=1
18÷9=2
27÷9=3
36÷9=4
45÷9=5
54÷9=6
63÷9=7
72÷9=8
81÷9=9
90÷9=10
99÷9=11
108÷9=12

÷10

10÷10=1
20÷10=2
30÷10=3
40÷10=4
50÷10=5
60÷10=6
70÷10=7
80÷10=8
90÷10=9
100÷10=10
110÷10=11
120÷10=12

÷11

11÷11=1
22÷11=2
33÷11=3
44÷11=4
55÷11=5
66÷11=6
77÷11=7
88÷11=8
99÷11=9
110÷11=10
121÷11=11
132÷11=12

÷12

12÷12=1
24÷12=2
36÷12=3
48÷12=4
60÷12=5
72÷12=6
84÷12=7
96÷12=8
108÷12=9
120÷12=10
132÷12=11
144÷12=12



Multiplication

 **$\times 1$**

$1 \times 1 = 1$
 $1 \times 2 = 2$
 $1 \times 3 = 3$
 $1 \times 4 = 4$
 $1 \times 5 = 5$
 $1 \times 6 = 6$
 $1 \times 7 = 7$
 $1 \times 8 = 8$
 $1 \times 9 = 9$
 $1 \times 10 = 10$
 $1 \times 11 = 11$
 $1 \times 12 = 12$

 $\times 2$

$2 \times 1 = 2$
 $2 \times 2 = 4$
 $2 \times 3 = 6$
 $2 \times 4 = 8$
 $2 \times 5 = 10$
 $2 \times 6 = 12$
 $2 \times 7 = 14$
 $2 \times 8 = 16$
 $2 \times 9 = 18$
 $2 \times 10 = 20$
 $2 \times 11 = 22$
 $2 \times 12 = 24$

 $\times 3$

$3 \times 1 = 3$
 $3 \times 2 = 6$
 $3 \times 3 = 9$
 $3 \times 4 = 12$
 $3 \times 5 = 15$
 $3 \times 6 = 18$
 $3 \times 7 = 21$
 $3 \times 8 = 24$
 $3 \times 9 = 27$
 $3 \times 10 = 30$
 $3 \times 11 = 33$
 $3 \times 12 = 36$

 $\times 4$

$4 \times 1 = 4$
 $4 \times 2 = 8$
 $4 \times 3 = 12$
 $4 \times 4 = 16$
 $4 \times 5 = 20$
 $4 \times 6 = 24$
 $4 \times 7 = 28$
 $4 \times 8 = 32$
 $4 \times 9 = 36$
 $4 \times 10 = 40$
 $4 \times 11 = 44$
 $4 \times 12 = 48$

 $\times 5$

$5 \times 1 = 5$
 $5 \times 2 = 10$
 $5 \times 3 = 15$
 $5 \times 4 = 20$
 $5 \times 5 = 25$
 $5 \times 6 = 30$
 $5 \times 7 = 35$
 $5 \times 8 = 40$
 $5 \times 9 = 45$
 $5 \times 10 = 50$
 $5 \times 11 = 55$
 $5 \times 12 = 60$

 $\times 6$

$6 \times 1 = 6$
 $6 \times 2 = 12$
 $6 \times 3 = 18$
 $6 \times 4 = 24$
 $6 \times 5 = 30$
 $6 \times 6 = 36$
 $6 \times 7 = 42$
 $6 \times 8 = 48$
 $6 \times 9 = 54$
 $6 \times 10 = 60$
 $6 \times 11 = 66$
 $6 \times 12 = 72$

 $\times 7$

$7 \times 1 = 7$
 $7 \times 2 = 14$
 $7 \times 3 = 21$
 $7 \times 4 = 28$
 $7 \times 5 = 35$
 $7 \times 6 = 42$
 $7 \times 7 = 49$
 $7 \times 8 = 56$
 $7 \times 9 = 63$
 $7 \times 10 = 70$
 $7 \times 11 = 77$
 $7 \times 12 = 84$

 $\times 8$

$8 \times 1 = 8$
 $8 \times 2 = 16$
 $8 \times 3 = 24$
 $8 \times 4 = 32$
 $8 \times 5 = 40$
 $8 \times 6 = 48$
 $8 \times 7 = 56$
 $8 \times 8 = 64$
 $8 \times 9 = 72$
 $8 \times 10 = 80$
 $8 \times 11 = 88$
 $8 \times 12 = 96$

 $\times 9$

$9 \times 1 = 9$
 $9 \times 2 = 18$
 $9 \times 3 = 27$
 $9 \times 4 = 36$
 $9 \times 5 = 45$
 $9 \times 6 = 54$
 $9 \times 7 = 63$
 $9 \times 8 = 72$
 $9 \times 9 = 81$
 $9 \times 10 = 90$
 $9 \times 11 = 99$
 $9 \times 12 = 108$

 $\times 10$

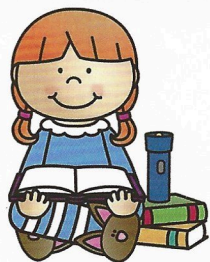
$10 \times 1 = 10$
 $10 \times 2 = 20$
 $10 \times 3 = 30$
 $10 \times 4 = 40$
 $10 \times 5 = 50$
 $10 \times 6 = 60$
 $10 \times 7 = 70$
 $10 \times 8 = 80$
 $10 \times 9 = 90$
 $10 \times 10 = 100$
 $10 \times 11 = 110$
 $10 \times 12 = 120$

 $\times 11$

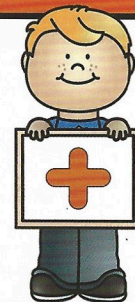
$11 \times 1 = 11$
 $11 \times 2 = 22$
 $11 \times 3 = 33$
 $11 \times 4 = 44$
 $11 \times 5 = 55$
 $11 \times 6 = 66$
 $11 \times 7 = 77$
 $11 \times 8 = 88$
 $11 \times 9 = 99$
 $11 \times 10 = 110$
 $11 \times 11 = 121$
 $11 \times 12 = 132$

 $\times 12$

$12 \times 1 = 12$
 $12 \times 2 = 24$
 $12 \times 3 = 36$
 $12 \times 4 = 48$
 $12 \times 5 = 60$
 $12 \times 6 = 72$
 $12 \times 7 = 84$
 $12 \times 8 = 96$
 $12 \times 9 = 108$
 $12 \times 10 = 120$
 $12 \times 11 = 132$
 $12 \times 12 = 144$



Addition



+1

1+1=2
1+2=3
1+3=4
1+4=5
1+5=6
1+6=7
1+7=8
1+8=9
1+9=10
1+10=11
1+11=12
1+12=13

+2

2+1=3
2+2=4
2+3=5
2+4=6
2+5=7
2+6=8
2+7=9
2+8=10
2+9=11
2+10=12
2+11=13
2+12=14

+3

3+1=4
3+2=5
3+3=6
3+4=7
3+5=8
3+6=9
3+7=10
3+8=11
3+9=12
3+10=13
3+11=14
3+12=15

+4

4+1=5
4+2=6
4+3=7
4+4=8
4+5=9
4+6=10
4+7=11
4+8=12
4+9=13
4+10=14
4+11=15
4+12=16

+5

5+1=6
5+2=7
5+3=8
5+4=9
5+5=10
5+6=11
5+7=12
5+8=13
5+9=14
5+10=15
5+11=16
5+12=17

+6

6+1=7
6+2=8
6+3=9
6+4=10
6+5=11
6+6=12
6+7=13
6+8=14
6+9=15
6+10=16
6+11=17
6+12=18

+7

7+1=8
7+2=9
7+3=10
7+4=11
7+5=12
7+6=13
7+7=14
7+8=15
7+9=16
7+10=17
7+11=18
7+12=19

+8

8+1=9
8+2=10
8+3=11
8+4=12
8+5=13
8+6=14
8+7=15
8+8=16
8+9=17
8+10=18
8+11=19
8+12=20

+9

9+1=10
9+2=11
9+3=12
9+4=13
9+5=14
9+6=15
9+7=16
9+8=17
9+9=18
9+10=19
9+11=20
9+12=21

+10

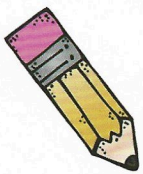
10+1=11
10+2=12
10+3=13
10+4=14
10+5=15
10+6=16
10+7=17
10+8=18
10+9=19
10+10=20
10+11=21
10+12=22

+11

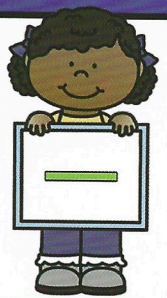
11+1=12
11+2=13
11+3=14
11+4=15
11+5=16
11+6=17
11+7=18
11+8=19
11+9=20
11+10=21
11+11=22
11+12=23

+12

12+1=13
12+2=14
12+3=15
12+4=16
12+5=17
12+6=18
12+7=19
12+8=20
12+9=21
12+10=22
12+11=23
12+12=24



Subtraction



-1

1-1=0
2-1=1
3-1=2
4-1=3
5-1=4
6-1=5
7-1=6
8-1=7
9-1=8
10-1=9
11-1=10
12-1=11

-2

2-2=0
3-2=1
4-2=2
5-2=3
6-2=4
7-2=5
8-2=6
9-2=7
10-2=8
11-2=9
12-2=10
13-2=11

-3

3-3=0
4-3=1
5-3=2
6-3=3
7-3=4
8-3=5
9-3=6
10-3=7
11-3=8
12-3=9
13-3=10
14-3=11

-4

4-4=0
5-4=1
6-4=2
7-4=3
8-4=4
9-4=5
10-4=6
11-4=7
12-4=8
13-4=9
14-4=10
15-4=11

-5

5-5=0
6-5=1
7-5=2
8-5=3
9-5=4
10-5=5
11-5=6
12-5=7
13-5=8
14-5=9
15-5=10
16-5=11

-6

6-6=0
7-6=1
8-6=2
9-6=3
10-6=4
11-6=5
12-6=6
13-6=7
14-6=8
15-6=9
16-6=10
17-6=11

-7

7-7=0
8-7=1
9-7=2
10-7=3
11-7=4
12-7=5
13-7=6
14-7=7
15-7=8
16-7=9
17-7=10
18-7=11

-8

8-8=0
9-8=1
10-8=2
11-8=3
12-8=4
13-8=5
14-8=6
15-8=7
16-8=8
17-8=9
18-8=10
19-8=11

-9

9-9=0
10-9=1
11-9=2
12-9=3
13-9=4
14-9=5
15-9=6
16-9=7
17-9=8
18-9=9
19-9=10
20-9=11

-10

10-10=0
11-10=1
12-10=2
13-10=3
14-10=4
15-10=5
16-10=6
17-10=7
18-10=8
19-10=9
20-10=10
21-10=11

-11

11-11=0
12-11=1
13-11=2
14-11=3
15-11=4
16-11=5
17-11=6
18-11=7
19-11=8
20-11=9
21-11=10
22-11=11

-12

12-12=0
13-12=1
14-12=2
15-12=3
16-12=4
17-12=5
18-12=6
19-12=7
20-12=8
21-12=9
22-12=10
23-12=11