

Eureka Math™

Grade 3, Module 5

Student File_B

*Contains Sprint and Fluency, Exit Ticket,
and Assessment Materials*

Published by Great Minds®.

Copyright © 2015 Great Minds. No part of this work may be reproduced, sold, or commercialized, in whole or in part, without written permission from Great Minds. Non-commercial use is licensed pursuant to a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 license; for more information, go to <http://greatminds.net/maps/math/copyright>.

Printed in the U.S.A.

This book may be purchased from the publisher at eureka-math.org

10 9 8 7 6 5 4 3 2 1

Sprint and Fluency Packet

A

Number Correct: _____

Multiply with Six

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

23.	$10 \times 6 =$	
24.	$9 \times 6 =$	
25.	$4 \times 6 =$	
26.	$8 \times 6 =$	
27.	$3 \times 6 =$	
28.	$7 \times 6 =$	
29.	$6 \times 6 =$	
30.	$6 \times 10 =$	
31.	$6 \times 5 =$	
32.	$6 \times 4 =$	
33.	$6 \times 1 =$	
34.	$6 \times 9 =$	
35.	$6 \times 6 =$	
36.	$6 \times 3 =$	
37.	$6 \times 2 =$	
38.	$6 \times 7 =$	
39.	$6 \times 8 =$	
40.	$11 \times 6 =$	
41.	$6 \times 11 =$	
42.	$12 \times 6 =$	
43.	$6 \times 12 =$	
44.	$13 \times 6 =$	

B

Number Correct: _____

Improvement: _____

Multiply with Six

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

23.	$9 \times 6 =$	
24.	$3 \times 6 =$	
25.	$8 \times 6 =$	
26.	$4 \times 6 =$	
27.	$7 \times 6 =$	
28.	$5 \times 6 =$	
29.	$6 \times 6 =$	
30.	$6 \times 5 =$	
31.	$6 \times 10 =$	
32.	$6 \times 1 =$	
33.	$6 \times 6 =$	
34.	$6 \times 4 =$	
35.	$6 \times 9 =$	
36.	$6 \times 2 =$	
37.	$6 \times 7 =$	
38.	$6 \times 3 =$	
39.	$6 \times 8 =$	
40.	$11 \times 6 =$	
41.	$6 \times 11 =$	
42.	$12 \times 6 =$	
43.	$6 \times 12 =$	
44.	$13 \times 6 =$	

A

Number Correct: _____

Multiply and Divide by Six

1.	$2 \times 6 =$	
2.	$3 \times 6 =$	
3.	$4 \times 6 =$	
4.	$5 \times 6 =$	
5.	$1 \times 6 =$	
6.	$12 \div 6 =$	
7.	$18 \div 6 =$	
8.	$30 \div 6 =$	
9.	$6 \div 6 =$	
10.	$24 \div 6 =$	
11.	$6 \times 6 =$	
12.	$7 \times 6 =$	
13.	$8 \times 6 =$	
14.	$9 \times 6 =$	
15.	$10 \times 6 =$	
16.	$48 \div 6 =$	
17.	$42 \div 6 =$	
18.	$54 \div 6 =$	
19.	$36 \div 6 =$	
20.	$60 \div 6 =$	
21.	$\underline{\quad} \times 6 = 30$	
22.	$\underline{\quad} \times 6 = 6$	

23.	$\underline{\quad} \times 6 = 60$	
24.	$\underline{\quad} \times 6 = 12$	
25.	$\underline{\quad} \times 6 = 18$	
26.	$60 \div 6 =$	
27.	$30 \div 6 =$	
28.	$6 \div 6 =$	
29.	$12 \div 6 =$	
30.	$18 \div 6 =$	
31.	$\underline{\quad} \times 6 = 36$	
32.	$\underline{\quad} \times 6 = 42$	
33.	$\underline{\quad} \times 6 = 54$	
34.	$\underline{\quad} \times 6 = 48$	
35.	$42 \div 6 =$	
36.	$54 \div 6 =$	
37.	$36 \div 6 =$	
38.	$48 \div 6 =$	
39.	$11 \times 6 =$	
40.	$66 \div 6 =$	
41.	$12 \times 6 =$	
42.	$72 \div 6 =$	
43.	$14 \times 6 =$	
44.	$84 \div 6 =$	

B

Number Correct: _____

Improvement: _____

Multiply and Divide by Six

1.	$1 \times 6 =$	
2.	$2 \times 6 =$	
3.	$3 \times 6 =$	
4.	$4 \times 6 =$	
5.	$5 \times 6 =$	
6.	$18 \div 6 =$	
7.	$12 \div 6 =$	
8.	$24 \div 6 =$	
9.	$6 \div 6 =$	
10.	$30 \div 6 =$	
11.	$10 \times 6 =$	
12.	$6 \times 6 =$	
13.	$7 \times 6 =$	
14.	$8 \times 6 =$	
15.	$9 \times 6 =$	
16.	$42 \div 6 =$	
17.	$36 \div 6 =$	
18.	$48 \div 6 =$	
19.	$60 \div 6 =$	
20.	$54 \div 6 =$	
21.	$\underline{\quad} \times 6 = 6$	
22.	$\underline{\quad} \times 6 = 30$	

23.	$\underline{\quad} \times 6 = 12$	
24.	$\underline{\quad} \times 6 = 60$	
25.	$\underline{\quad} \times 6 = 18$	
26.	$12 \div 6 =$	
27.	$6 \div 6 =$	
28.	$60 \div 6 =$	
29.	$30 \div 6 =$	
30.	$18 \div 6 =$	
31.	$\underline{\quad} \times 6 = 18$	
32.	$\underline{\quad} \times 6 = 24$	
33.	$\underline{\quad} \times 6 = 54$	
34.	$\underline{\quad} \times 6 = 42$	
35.	$48 \div 6 =$	
36.	$54 \div 6 =$	
37.	$36 \div 6 =$	
38.	$42 \div 6 =$	
39.	$11 \times 6 =$	
40.	$66 \div 6 =$	
41.	$12 \times 6 =$	
42.	$72 \div 6 =$	
43.	$13 \times 6 =$	
44.	$78 \div 6 =$	

A

Number Correct: _____

Multiply with Seven

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

23.	$10 \times 7 =$	
24.	$9 \times 7 =$	
25.	$4 \times 7 =$	
26.	$8 \times 7 =$	
27.	$7 \times 3 =$	
28.	$7 \times 7 =$	
29.	$6 \times 7 =$	
30.	$7 \times 10 =$	
31.	$7 \times 5 =$	
32.	$7 \times 6 =$	
33.	$7 \times 1 =$	
34.	$7 \times 9 =$	
35.	$7 \times 4 =$	
36.	$7 \times 3 =$	
37.	$7 \times 2 =$	
38.	$7 \times 7 =$	
39.	$7 \times 8 =$	
40.	$11 \times 7 =$	
41.	$7 \times 11 =$	
42.	$12 \times 7 =$	
43.	$7 \times 12 =$	
44.	$13 \times 7 =$	

B

Number Correct: _____

Improvement: _____

Multiply with Seven

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

23.	$9 \times 7 =$	
24.	$3 \times 7 =$	
25.	$8 \times 7 =$	
26.	$4 \times 7 =$	
27.	$7 \times 7 =$	
28.	$5 \times 7 =$	
29.	$6 \times 7 =$	
30.	$7 \times 5 =$	
31.	$7 \times 10 =$	
32.	$7 \times 1 =$	
33.	$7 \times 6 =$	
34.	$7 \times 4 =$	
35.	$7 \times 9 =$	
36.	$7 \times 2 =$	
37.	$7 \times 7 =$	
38.	$7 \times 3 =$	
39.	$7 \times 8 =$	
40.	$11 \times 7 =$	
41.	$7 \times 11 =$	
42.	$12 \times 7 =$	
43.	$7 \times 12 =$	
44.	$13 \times 7 =$	

A

Number Correct: _____

Multiply and Divide by Seven

1.	$2 \times 7 =$	
2.	$3 \times 7 =$	
3.	$4 \times 7 =$	
4.	$5 \times 7 =$	
5.	$1 \times 7 =$	
6.	$14 \div 7 =$	
7.	$21 \div 7 =$	
8.	$35 \div 7 =$	
9.	$7 \div 7 =$	
10.	$28 \div 7 =$	
11.	$6 \times 7 =$	
12.	$7 \times 7 =$	
13.	$8 \times 7 =$	
14.	$9 \times 7 =$	
15.	$10 \times 7 =$	
16.	$56 \div 7 =$	
17.	$49 \div 7 =$	
18.	$63 \div 7 =$	
19.	$42 \div 7 =$	
20.	$70 \div 7 =$	
21.	$___ \times 7 = 35$	
22.	$___ \times 7 = 7$	

23.	$___ \times 7 = 70$	
24.	$___ \times 7 = 14$	
25.	$___ \times 7 = 21$	
26.	$70 \div 7 =$	
27.	$35 \div 7 =$	
28.	$7 \div 7 =$	
29.	$14 \div 7 =$	
30.	$21 \div 7 =$	
31.	$___ \times 7 = 42$	
32.	$___ \times 7 = 49$	
33.	$___ \times 7 = 63$	
34.	$___ \times 7 = 56$	
35.	$49 \div 7 =$	
36.	$63 \div 7 =$	
37.	$42 \div 7 =$	
38.	$56 \div 7 =$	
39.	$11 \times 7 =$	
40.	$77 \div 7 =$	
41.	$12 \times 7 =$	
42.	$84 \div 7 =$	
43.	$14 \times 7 =$	
44.	$98 \div 7 =$	

B

Number Correct: _____

Improvement: _____

Multiply and Divide by Seven

1.	$1 \times 7 =$	
2.	$2 \times 7 =$	
3.	$3 \times 7 =$	
4.	$4 \times 7 =$	
5.	$5 \times 7 =$	
6.	$21 \div 7 =$	
7.	$14 \div 7 =$	
8.	$28 \div 7 =$	
9.	$7 \div 7 =$	
10.	$35 \div 7 =$	
11.	$10 \times 7 =$	
12.	$6 \times 7 =$	
13.	$7 \times 7 =$	
14.	$8 \times 7 =$	
15.	$9 \times 7 =$	
16.	$49 \div 7 =$	
17.	$42 \div 7 =$	
18.	$56 \div 7 =$	
19.	$70 \div 7 =$	
20.	$63 \div 7 =$	
21.	$\underline{\quad} \times 7 = 7$	
22.	$\underline{\quad} \times 7 = 35$	

23.	$\underline{\quad} \times 7 = 14$	
24.	$\underline{\quad} \times 7 = 70$	
25.	$\underline{\quad} \times 7 = 21$	
26.	$14 \div 7 =$	
27.	$7 \div 7 =$	
28.	$70 \div 7 =$	
29.	$35 \div 7 =$	
30.	$21 \div 7 =$	
31.	$\underline{\quad} \times 7 = 21$	
32.	$\underline{\quad} \times 7 = 28$	
33.	$\underline{\quad} \times 7 = 63$	
34.	$\underline{\quad} \times 7 = 49$	
35.	$56 \div 7 =$	
36.	$63 \div 7 =$	
37.	$42 \div 7 =$	
38.	$49 \div 7 =$	
39.	$11 \times 7 =$	
40.	$77 \div 7 =$	
41.	$12 \times 7 =$	
42.	$84 \div 7 =$	
43.	$13 \times 7 =$	
44.	$91 \div 7 =$	

Number Correct: _____

A

Identify Fractions.

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

23.		/
24.		/
25.		/
26.		/
27.		/
28.		/
29.		/
30.		/
31.		/
32.		/
33.		/
34.		/
35.		/
36.		/
37.		/
38.		/
39.		/
40.		/
41.		/
42.		/
43.		/
44.		/

Number Correct: _____

Improvement: _____

B

Identify Fractions.

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

23.		/
24.		/
25.		/
26.		/
27.		/
28.		/
29.		/
30.		/
31.		/
32.		/
33.		/
34.		/
35.		/
36.		/
37.		/
38.		/
39.		/
40.		/
41.		/
42.		/
43.		/
44.		/

A

Number Correct: _____

Multiply with Eight

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

23.	$9 \times 8 =$	
24.	$3 \times 8 =$	
25.	$8 \times 8 =$	
26.	$4 \times 8 =$	
27.	$7 \times 8 =$	
28.	$5 \times 8 =$	
29.	$6 \times 8 =$	
30.	$8 \times 5 =$	
31.	$8 \times 10 =$	
32.	$8 \times 1 =$	
33.	$8 \times 6 =$	
34.	$8 \times 4 =$	
35.	$8 \times 9 =$	
36.	$8 \times 2 =$	
37.	$8 \times 7 =$	
38.	$8 \times 3 =$	
39.	$8 \times 8 =$	
40.	$11 \times 8 =$	
41.	$8 \times 11 =$	
42.	$12 \times 8 =$	
43.	$8 \times 12 =$	
44.	$13 \times 8 =$	

B

Number Correct: _____

Improvement: _____

Multiply with Eight

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

23.	$10 \times 8 =$	
24.	$9 \times 8 =$	
25.	$4 \times 8 =$	
26.	$8 \times 8 =$	
27.	$8 \times 3 =$	
28.	$7 \times 8 =$	
29.	$6 \times 8 =$	
30.	$8 \times 10 =$	
31.	$8 \times 5 =$	
32.	$8 \times 6 =$	
33.	$8 \times 1 =$	
34.	$8 \times 9 =$	
35.	$8 \times 4 =$	
36.	$8 \times 3 =$	
37.	$8 \times 2 =$	
38.	$8 \times 7 =$	
39.	$8 \times 8 =$	
40.	$11 \times 8 =$	
41.	$8 \times 11 =$	
42.	$12 \times 8 =$	
43.	$8 \times 12 =$	
44.	$13 \times 8 =$	

A

Number Correct: _____

Multiply and Divide by Eight

1.	$2 \times 8 =$	
2.	$3 \times 8 =$	
3.	$4 \times 8 =$	
4.	$5 \times 8 =$	
5.	$1 \times 8 =$	
6.	$16 \div 8 =$	
7.	$24 \div 8 =$	
8.	$40 \div 8 =$	
9.	$8 \div 8 =$	
10.	$32 \div 8 =$	
11.	$6 \times 8 =$	
12.	$7 \times 8 =$	
13.	$8 \times 8 =$	
14.	$9 \times 8 =$	
15.	$10 \times 8 =$	
16.	$64 \div 8 =$	
17.	$56 \div 8 =$	
18.	$72 \div 8 =$	
19.	$48 \div 8 =$	
20.	$80 \div 8 =$	
21.	$\underline{\quad} \times 8 = 40$	
22.	$\underline{\quad} \times 8 = 8$	

23.	$\underline{\quad} \times 8 = 80$	
24.	$\underline{\quad} \times 8 = 16$	
25.	$\underline{\quad} \times 8 = 24$	
26.	$80 \div 8 =$	
27.	$40 \div 8 =$	
28.	$8 \div 8 =$	
29.	$16 \div 8 =$	
30.	$24 \div 8 =$	
31.	$\underline{\quad} \times 8 = 48$	
32.	$\underline{\quad} \times 8 = 56$	
33.	$\underline{\quad} \times 8 = 72$	
34.	$\underline{\quad} \times 8 = 64$	
35.	$56 \div 8 =$	
36.	$72 \div 8 =$	
37.	$48 \div 8 =$	
38.	$64 \div 8 =$	
39.	$11 \times 8 =$	
40.	$88 \div 8 =$	
41.	$12 \times 8 =$	
42.	$96 \div 8 =$	
43.	$14 \times 8 =$	
44.	$112 \div 8 =$	

B

Number Correct: _____

Improvement: _____

Multiply and Divide by Eight

1.	$1 \times 8 =$	
2.	$2 \times 8 =$	
3.	$3 \times 8 =$	
4.	$4 \times 8 =$	
5.	$5 \times 8 =$	
6.	$24 \div 8 =$	
7.	$16 \div 8 =$	
8.	$32 \div 8 =$	
9.	$8 \div 8 =$	
10.	$40 \div 8 =$	
11.	$10 \times 8 =$	
12.	$6 \times 8 =$	
13.	$7 \times 8 =$	
14.	$8 \times 8 =$	
15.	$9 \times 8 =$	
16.	$56 \div 8 =$	
17.	$48 \div 8 =$	
18.	$64 \div 8 =$	
19.	$80 \div 8 =$	
20.	$72 \div 8 =$	
21.	$\underline{\quad} \times 8 = 8$	
22.	$\underline{\quad} \times 8 = 40$	

23.	$\underline{\quad} \times 8 = 16$	
24.	$\underline{\quad} \times 8 = 80$	
25.	$\underline{\quad} \times 8 = 24$	
26.	$16 \div 8 =$	
27.	$8 \div 8 =$	
28.	$80 \div 8 =$	
29.	$40 \div 8 =$	
30.	$24 \div 8 =$	
31.	$\underline{\quad} \times 8 = 24$	
32.	$\underline{\quad} \times 8 = 32$	
33.	$\underline{\quad} \times 8 = 72$	
34.	$\underline{\quad} \times 8 = 56$	
35.	$64 \div 8 =$	
36.	$72 \div 8 =$	
37.	$48 \div 8 =$	
38.	$56 \div 8 =$	
39.	$11 \times 8 =$	
40.	$88 \div 8 =$	
41.	$12 \times 8 =$	
42.	$96 \div 8 =$	
43.	$13 \times 8 =$	
44.	$104 \div 8 =$	

Number Correct: _____

A

Multiply with Nine

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

23.	$9 \times 9 =$	
24.	$3 \times 9 =$	
25.	$8 \times 9 =$	
26.	$4 \times 9 =$	
27.	$7 \times 9 =$	
28.	$5 \times 9 =$	
29.	$6 \times 9 =$	
30.	$9 \times 5 =$	
31.	$9 \times 10 =$	
32.	$9 \times 1 =$	
33.	$9 \times 6 =$	
34.	$9 \times 4 =$	
35.	$9 \times 9 =$	
36.	$9 \times 2 =$	
37.	$9 \times 7 =$	
38.	$9 \times 3 =$	
39.	$9 \times 8 =$	
40.	$11 \times 9 =$	
41.	$9 \times 11 =$	
42.	$12 \times 9 =$	
43.	$9 \times 12 =$	
44.	$13 \times 9 =$	

B

Number Correct: _____

Improvement: _____

Multiply with Nine

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

23.	$10 \times 9 =$	
24.	$9 \times 9 =$	
25.	$4 \times 9 =$	
26.	$8 \times 9 =$	
27.	$3 \times 9 =$	
28.	$7 \times 9 =$	
29.	$6 \times 9 =$	
30.	$9 \times 10 =$	
31.	$9 \times 5 =$	
32.	$9 \times 6 =$	
33.	$9 \times 1 =$	
34.	$9 \times 9 =$	
35.	$9 \times 4 =$	
36.	$9 \times 3 =$	
37.	$9 \times 2 =$	
38.	$9 \times 7 =$	
39.	$9 \times 8 =$	
40.	$11 \times 9 =$	
41.	$9 \times 11 =$	
42.	$12 \times 9 =$	
43.	$9 \times 12 =$	
44.	$13 \times 9 =$	

A

Number Correct: _____

Multiply and Divide by Nine

1.	$2 \times 9 =$	
2.	$3 \times 9 =$	
3.	$4 \times 9 =$	
4.	$5 \times 9 =$	
5.	$1 \times 9 =$	
6.	$18 \div 9 =$	
7.	$27 \div 9 =$	
8.	$45 \div 9 =$	
9.	$9 \div 9 =$	
10.	$36 \div 9 =$	
11.	$6 \times 9 =$	
12.	$7 \times 9 =$	
13.	$8 \times 9 =$	
14.	$9 \times 9 =$	
15.	$10 \times 9 =$	
16.	$72 \div 9 =$	
17.	$63 \div 9 =$	
18.	$81 \div 9 =$	
19.	$54 \div 9 =$	
20.	$90 \div 9 =$	
21.	$\underline{\quad} \times 9 = 45$	
22.	$\underline{\quad} \times 9 = 9$	

23.	$\underline{\quad} \times 9 = 90$	
24.	$\underline{\quad} \times 9 = 18$	
25.	$\underline{\quad} \times 9 = 27$	
26.	$90 \div 9 =$	
27.	$45 \div 9 =$	
28.	$9 \div 9 =$	
29.	$18 \div 9 =$	
30.	$27 \div 9 =$	
31.	$\underline{\quad} \times 9 = 54$	
32.	$\underline{\quad} \times 9 = 63$	
33.	$\underline{\quad} \times 9 = 81$	
34.	$\underline{\quad} \times 9 = 72$	
35.	$63 \div 9 =$	
36.	$81 \div 9 =$	
37.	$54 \div 9 =$	
38.	$72 \div 9 =$	
39.	$11 \times 9 =$	
40.	$99 \div 9 =$	
41.	$12 \times 9 =$	
42.	$108 \div 9 =$	
43.	$14 \times 9 =$	
44.	$126 \div 9 =$	

B

Number Correct: _____

Improvement: _____

Multiply and Divide by Nine

1.	$1 \times 9 =$	
2.	$2 \times 9 =$	
3.	$3 \times 9 =$	
4.	$4 \times 9 =$	
5.	$5 \times 9 =$	
6.	$27 \div 9 =$	
7.	$18 \div 9 =$	
8.	$36 \div 9 =$	
9.	$9 \div 9 =$	
10.	$45 \div 9 =$	
11.	$10 \times 9 =$	
12.	$6 \times 9 =$	
13.	$7 \times 9 =$	
14.	$8 \times 9 =$	
15.	$9 \times 9 =$	
16.	$63 \div 9 =$	
17.	$54 \div 9 =$	
18.	$72 \div 9 =$	
19.	$90 \div 9 =$	
20.	$81 \div 9 =$	
21.	$\underline{\quad} \times 9 = 9$	
22.	$\underline{\quad} \times 9 = 45$	

23.	$\underline{\quad} \times 9 = 18$	
24.	$\underline{\quad} \times 9 = 90$	
25.	$\underline{\quad} \times 9 = 27$	
26.	$18 \div 9 =$	
27.	$9 \div 9 =$	
28.	$90 \div 9 =$	
29.	$45 \div 9 =$	
30.	$27 \div 9 =$	
31.	$\underline{\quad} \times 9 = 27$	
32.	$\underline{\quad} \times 9 = 36$	
33.	$\underline{\quad} \times 9 = 81$	
34.	$\underline{\quad} \times 9 = 63$	
35.	$72 \div 9 =$	
36.	$81 \div 9 =$	
37.	$54 \div 9 =$	
38.	$63 \div 9 =$	
39.	$11 \times 9 =$	
40.	$99 \div 9 =$	
41.	$12 \times 9 =$	
42.	$108 \div 9 =$	
43.	$13 \times 9 =$	
44.	$117 \div 9 =$	

A

Number Correct: _____

Division

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

23.	$24 \div 3 =$	
24.	$16 \div 2 =$	
25.	$30 \div 10 =$	
26.	$30 \div 3 =$	
27.	$27 \div 3 =$	
28.	$18 \div 2 =$	
29.	$40 \div 10 =$	
30.	$40 \div 4 =$	
31.	$20 \div 4 =$	
32.	$20 \div 5 =$	
33.	$24 \div 4 =$	
34.	$30 \div 5 =$	
35.	$28 \div 4 =$	
36.	$40 \div 5 =$	
37.	$32 \div 4 =$	
38.	$45 \div 5 =$	
39.	$44 \div 4 =$	
40.	$36 \div 4 =$	
41.	$48 \div 6 =$	
42.	$63 \div 7 =$	
43.	$64 \div 8 =$	
44.	$72 \div 9 =$	

B

Number Correct: _____

Improvement: _____

Division

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

23.	$16 \div 2 =$	
24.	$24 \div 3 =$	
25.	$30 \div 3 =$	
26.	$30 \div 10 =$	
27.	$18 \div 2 =$	
28.	$27 \div 3 =$	
29.	$40 \div 4 =$	
30.	$40 \div 10 =$	
31.	$20 \div 5 =$	
32.	$20 \div 4 =$	
33.	$30 \div 5 =$	
34.	$24 \div 4 =$	
35.	$40 \div 5 =$	
36.	$28 \div 4 =$	
37.	$45 \div 5 =$	
38.	$32 \div 4 =$	
39.	$55 \div 5 =$	
40.	$36 \div 4 =$	
41.	$54 \div 6 =$	
42.	$56 \div 7 =$	
43.	$72 \div 8 =$	
44.	$63 \div 9 =$	

A

Number Correct: _____

Express Fractions as Whole Numbers

1.	$\frac{2}{1} =$	
2.	$\frac{2}{2} =$	
3.	$\frac{4}{2} =$	
4.	$\frac{6}{2} =$	
5.	$\frac{10}{2} =$	
6.	$\frac{8}{2} =$	
7.	$\frac{5}{1} =$	
8.	$\frac{5}{5} =$	
9.	$\frac{10}{5} =$	
10.	$\frac{15}{5} =$	
11.	$\frac{25}{5} =$	
12.	$\frac{20}{5} =$	
13.	$\frac{10}{10} =$	
14.	$\frac{50}{10} =$	
15.	$\frac{30}{10} =$	
16.	$\frac{10}{1} =$	
17.	$\frac{20}{10} =$	
18.	$\frac{40}{10} =$	
19.	$\frac{8}{4} =$	
20.	$\frac{4}{4} =$	
21.	$\frac{4}{1} =$	
22.	$\frac{12}{4} =$	

23.	$\frac{6}{3} =$	
24.	$\frac{3}{3} =$	
25.	$\frac{3}{1} =$	
26.	$\frac{9}{3} =$	
27.	$\frac{16}{4} =$	
28.	$\frac{20}{4} =$	
29.	$\frac{12}{3} =$	
30.	$\frac{15}{3} =$	
31.	$\frac{70}{10} =$	
32.	$\frac{12}{2} =$	
33.	$\frac{14}{2} =$	
34.	$\frac{90}{10} =$	
35.	$\frac{30}{5} =$	
36.	$\frac{35}{5} =$	
37.	$\frac{60}{10} =$	
38.	$\frac{18}{2} =$	
39.	$\frac{40}{5} =$	
40.	$\frac{80}{10} =$	
41.	$\frac{16}{2} =$	
42.	$\frac{45}{5} =$	
43.	$\frac{27}{3} =$	
44.	$\frac{32}{4} =$	

B

Number Correct: _____

Improvement: _____

Express Fractions as Whole Numbers

1.	$\frac{5}{1} =$	
2.	$\frac{5}{5} =$	
3.	$\frac{10}{5} =$	
4.	$\frac{15}{5} =$	
5.	$\frac{25}{5} =$	
6.	$\frac{20}{5} =$	
7.	$\frac{2}{1} =$	
8.	$\frac{2}{2} =$	
9.	$\frac{4}{2} =$	
10.	$\frac{6}{2} =$	
11.	$\frac{10}{2} =$	
12.	$\frac{8}{2} =$	
13.	$\frac{10}{1} =$	
14.	$\frac{10}{10} =$	
15.	$\frac{50}{10} =$	
16.	$\frac{30}{10} =$	
17.	$\frac{20}{10} =$	
18.	$\frac{40}{10} =$	
19.	$\frac{6}{3} =$	
20.	$\frac{3}{3} =$	
21.	$\frac{3}{1} =$	
22.	$\frac{9}{3} =$	

23.	$\frac{8}{4} =$	
24.	$\frac{4}{4} =$	
25.	$\frac{4}{1} =$	
26.	$\frac{12}{4} =$	
27.	$\frac{12}{3} =$	
28.	$\frac{15}{3} =$	
29.	$\frac{16}{4} =$	
30.	$\frac{20}{4} =$	
31.	$\frac{90}{10} =$	
32.	$\frac{30}{5} =$	
33.	$\frac{35}{5} =$	
34.	$\frac{70}{10} =$	
35.	$\frac{12}{2} =$	
36.	$\frac{14}{2} =$	
37.	$\frac{80}{10} =$	
38.	$\frac{45}{5} =$	
39.	$\frac{16}{2} =$	
40.	$\frac{60}{10} =$	
41.	$\frac{18}{2} =$	
42.	$\frac{40}{5} =$	
43.	$\frac{36}{4} =$	
44.	$\frac{24}{3} =$	

Multiply.

$7 \times 1 = \underline{\quad}$ $7 \times 2 = \underline{\quad}$ $7 \times 3 = \underline{\quad}$ $7 \times 4 = \underline{\quad}$

$7 \times 5 = \underline{\quad}$ $7 \times 1 = \underline{\quad}$ $7 \times 2 = \underline{\quad}$ $7 \times 1 = \underline{\quad}$

$7 \times 3 = \underline{\quad}$ $7 \times 1 = \underline{\quad}$ $7 \times 4 = \underline{\quad}$ $7 \times 1 = \underline{\quad}$

$7 \times 5 = \underline{\quad}$ $7 \times 1 = \underline{\quad}$ $7 \times 2 = \underline{\quad}$ $7 \times 3 = \underline{\quad}$

$7 \times 2 = \underline{\quad}$ $7 \times 4 = \underline{\quad}$ $7 \times 2 = \underline{\quad}$ $7 \times 5 = \underline{\quad}$

$7 \times 2 = \underline{\quad}$ $7 \times 1 = \underline{\quad}$ $7 \times 2 = \underline{\quad}$ $7 \times 3 = \underline{\quad}$

$7 \times 1 = \underline{\quad}$ $7 \times 3 = \underline{\quad}$ $7 \times 2 = \underline{\quad}$ $7 \times 3 = \underline{\quad}$

$7 \times 4 = \underline{\quad}$ $7 \times 3 = \underline{\quad}$ $7 \times 5 = \underline{\quad}$ $7 \times 3 = \underline{\quad}$

$7 \times 4 = \underline{\quad}$ $7 \times 1 = \underline{\quad}$ $7 \times 4 = \underline{\quad}$ $7 \times 2 = \underline{\quad}$

$7 \times 4 = \underline{\quad}$ $7 \times 3 = \underline{\quad}$ $7 \times 4 = \underline{\quad}$ $7 \times 5 = \underline{\quad}$

$7 \times 4 = \underline{\quad}$ $7 \times 5 = \underline{\quad}$ $7 \times 1 = \underline{\quad}$ $7 \times 5 = \underline{\quad}$

$7 \times 2 = \underline{\quad}$ $7 \times 5 = \underline{\quad}$ $7 \times 3 = \underline{\quad}$ $7 \times 5 = \underline{\quad}$

$7 \times 4 = \underline{\quad}$ $7 \times 2 = \underline{\quad}$ $7 \times 4 = \underline{\quad}$ $7 \times 3 = \underline{\quad}$

$7 \times 5 = \underline{\quad}$ $7 \times 3 = \underline{\quad}$ $7 \times 2 = \underline{\quad}$ $7 \times 4 = \underline{\quad}$

$7 \times 3 = \underline{\quad}$ $7 \times 5 = \underline{\quad}$ $7 \times 2 = \underline{\quad}$ $7 \times 4 = \underline{\quad}$

multiply by 7 (1–5)

A

Number Correct: _____

Add by Six

1.	$0 + 6 =$	
2.	$1 + 6 =$	
3.	$2 + 6 =$	
4.	$3 + 6 =$	
5.	$4 + 6 =$	
6.	$6 + 4 =$	
7.	$6 + 3 =$	
8.	$6 + 2 =$	
9.	$6 + 1 =$	
10.	$6 + 0 =$	
11.	$15 + 6 =$	
12.	$25 + 6 =$	
13.	$35 + 6 =$	
14.	$45 + 6 =$	
15.	$55 + 6 =$	
16.	$85 + 6 =$	
17.	$6 + 6 =$	
18.	$16 + 6 =$	
19.	$26 + 6 =$	
20.	$36 + 6 =$	
21.	$46 + 6 =$	
22.	$76 + 6 =$	

23.	$7 + 6 =$	
24.	$17 + 6 =$	
25.	$27 + 6 =$	
26.	$37 + 6 =$	
27.	$47 + 6 =$	
28.	$77 + 6 =$	
29.	$8 + 6 =$	
30.	$18 + 6 =$	
31.	$28 + 6 =$	
32.	$38 + 6 =$	
33.	$48 + 6 =$	
34.	$78 + 6 =$	
35.	$9 + 6 =$	
36.	$19 + 6 =$	
37.	$29 + 6 =$	
38.	$39 + 6 =$	
39.	$89 + 6 =$	
40.	$6 + 75 =$	
41.	$6 + 56 =$	
42.	$6 + 77 =$	
43.	$6 + 88 =$	
44.	$6 + 99 =$	

B

Number Correct: _____

Improvement: _____

Add by Six

1.	$6 + 0 =$	
2.	$6 + 1 =$	
3.	$6 + 2 =$	
4.	$6 + 3 =$	
5.	$6 + 4 =$	
6.	$4 + 6 =$	
7.	$3 + 6 =$	
8.	$2 + 6 =$	
9.	$1 + 6 =$	
10.	$0 + 6 =$	
11.	$5 + 6 =$	
12.	$15 + 6 =$	
13.	$25 + 6 =$	
14.	$35 + 6 =$	
15.	$45 + 6 =$	
16.	$75 + 6 =$	
17.	$6 + 6 =$	
18.	$16 + 6 =$	
19.	$26 + 6 =$	
20.	$36 + 6 =$	
21.	$46 + 6 =$	
22.	$86 + 6 =$	

23.	$7 + 6 =$	
24.	$17 + 6 =$	
25.	$27 + 6 =$	
26.	$37 + 6 =$	
27.	$47 + 6 =$	
28.	$67 + 6 =$	
29.	$8 + 6 =$	
30.	$18 + 6 =$	
31.	$28 + 6 =$	
32.	$38 + 6 =$	
33.	$48 + 6 =$	
34.	$88 + 6 =$	
35.	$9 + 6 =$	
36.	$19 + 6 =$	
37.	$29 + 6 =$	
38.	$39 + 6 =$	
39.	$79 + 6 =$	
40.	$6 + 55 =$	
41.	$6 + 76 =$	
42.	$6 + 57 =$	
43.	$6 + 98 =$	
44.	$6 + 89 =$	

A

Number Correct: _____

Add by Seven

1.	$0 + 7 =$	
2.	$1 + 7 =$	
3.	$2 + 7 =$	
4.	$3 + 7 =$	
5.	$7 + 3 =$	
6.	$7 + 2 =$	
7.	$7 + 1 =$	
8.	$7 + 0 =$	
9.	$4 + 7 =$	
10.	$14 + 7 =$	
11.	$24 + 7 =$	
12.	$34 + 7 =$	
13.	$44 + 7 =$	
14.	$84 + 7 =$	
15.	$64 + 7 =$	
16.	$5 + 7 =$	
17.	$15 + 7 =$	
18.	$25 + 7 =$	
19.	$35 + 7 =$	
20.	$45 + 7 =$	
21.	$75 + 7 =$	
22.	$55 + 7 =$	

23.	$6 + 7 =$	
24.	$16 + 7 =$	
25.	$26 + 7 =$	
26.	$36 + 7 =$	
27.	$46 + 7 =$	
28.	$66 + 7 =$	
29.	$7 + 7 =$	
30.	$17 + 7 =$	
31.	$27 + 7 =$	
32.	$37 + 7 =$	
33.	$87 + 7 =$	
34.	$8 + 7 =$	
35.	$18 + 7 =$	
36.	$28 + 7 =$	
37.	$38 + 7 =$	
38.	$78 + 7 =$	
39.	$9 + 7 =$	
40.	$19 + 7 =$	
41.	$29 + 7 =$	
42.	$39 + 7 =$	
43.	$49 + 7 =$	
44.	$79 + 7 =$	

B

Number Correct: _____

Improvement: _____

Add by Seven

1.	$7 + 0 =$	
2.	$7 + 1 =$	
3.	$7 + 2 =$	
4.	$7 + 3 =$	
5.	$3 + 7 =$	
6.	$2 + 7 =$	
7.	$1 + 7 =$	
8.	$0 + 7 =$	
9.	$4 + 7 =$	
10.	$14 + 7 =$	
11.	$24 + 7 =$	
12.	$34 + 7 =$	
13.	$44 + 7 =$	
14.	$74 + 7 =$	
15.	$54 + 7 =$	
16.	$5 + 7 =$	
17.	$15 + 7 =$	
18.	$25 + 7 =$	
19.	$35 + 7 =$	
20.	$45 + 7 =$	
21.	$85 + 7 =$	
22.	$65 + 7 =$	

23.	$6 + 7 =$	
24.	$16 + 7 =$	
25.	$26 + 7 =$	
26.	$36 + 7 =$	
27.	$46 + 7 =$	
28.	$76 + 7 =$	
29.	$7 + 7 =$	
30.	$17 + 7 =$	
31.	$27 + 7 =$	
32.	$37 + 7 =$	
33.	$67 + 7 =$	
34.	$8 + 7 =$	
35.	$18 + 7 =$	
36.	$28 + 7 =$	
37.	$38 + 7 =$	
38.	$88 + 7 =$	
39.	$9 + 7 =$	
40.	$19 + 7 =$	
41.	$29 + 7 =$	
42.	$39 + 7 =$	
43.	$49 + 7 =$	
44.	$89 + 7 =$	

A

Number Correct: _____

Subtract by Six

1.	$16 - 6 =$	
2.	$6 - 6 =$	
3.	$26 - 6 =$	
4.	$7 - 6 =$	
5.	$17 - 6 =$	
6.	$37 - 6 =$	
7.	$8 - 6 =$	
8.	$18 - 6 =$	
9.	$48 - 6 =$	
10.	$9 - 6 =$	
11.	$19 - 6 =$	
12.	$59 - 6 =$	
13.	$10 - 6 =$	
14.	$20 - 6 =$	
15.	$70 - 6 =$	
16.	$11 - 6 =$	
17.	$21 - 6 =$	
18.	$81 - 6 =$	
19.	$12 - 6 =$	
20.	$22 - 6 =$	
21.	$82 - 6 =$	
22.	$13 - 6 =$	

23.	$23 - 6 =$	
24.	$33 - 6 =$	
25.	$63 - 6 =$	
26.	$83 - 6 =$	
27.	$14 - 6 =$	
28.	$24 - 6 =$	
29.	$34 - 6 =$	
30.	$74 - 6 =$	
31.	$54 - 6 =$	
32.	$15 - 6 =$	
33.	$25 - 6 =$	
34.	$35 - 6 =$	
35.	$85 - 6 =$	
36.	$65 - 6 =$	
37.	$90 - 6 =$	
38.	$53 - 6 =$	
39.	$42 - 6 =$	
40.	$71 - 6 =$	
41.	$74 - 6 =$	
42.	$95 - 6 =$	
43.	$51 - 6 =$	
44.	$92 - 6 =$	

B

Number Correct: _____

Improvement: _____

Subtract by Six

1.	$6 - 6 =$	
2.	$16 - 6 =$	
3.	$26 - 6 =$	
4.	$7 - 6 =$	
5.	$17 - 6 =$	
6.	$67 - 6 =$	
7.	$8 - 6 =$	
8.	$18 - 6 =$	
9.	$78 - 6 =$	
10.	$9 - 6 =$	
11.	$19 - 6 =$	
12.	$89 - 6 =$	
13.	$10 - 6 =$	
14.	$20 - 6 =$	
15.	$90 - 6 =$	
16.	$11 - 6 =$	
17.	$21 - 6 =$	
18.	$41 - 6 =$	
19.	$12 - 6 =$	
20.	$22 - 6 =$	
21.	$42 - 6 =$	
22.	$13 - 6 =$	

23.	$23 - 6 =$	
24.	$33 - 6 =$	
25.	$53 - 6 =$	
26.	$73 - 6 =$	
27.	$14 - 6 =$	
28.	$24 - 6 =$	
29.	$34 - 6 =$	
30.	$64 - 6 =$	
31.	$44 - 6 =$	
32.	$15 - 6 =$	
33.	$25 - 6 =$	
34.	$35 - 6 =$	
35.	$75 - 6 =$	
36.	$55 - 6 =$	
37.	$70 - 6 =$	
38.	$63 - 6 =$	
39.	$52 - 6 =$	
40.	$81 - 6 =$	
41.	$64 - 6 =$	
42.	$85 - 6 =$	
43.	$91 - 6 =$	
44.	$52 - 6 =$	

A

Number Correct: _____

Add by Eight

1.	$0 + 8 =$	
2.	$1 + 8 =$	
3.	$2 + 8 =$	
4.	$8 + 2 =$	
5.	$1 + 8 =$	
6.	$0 + 8 =$	
7.	$3 + 8 =$	
8.	$13 + 8 =$	
9.	$23 + 8 =$	
10.	$33 + 8 =$	
11.	$43 + 8 =$	
12.	$83 + 8 =$	
13.	$4 + 8 =$	
14.	$14 + 8 =$	
15.	$24 + 8 =$	
16.	$34 + 8 =$	
17.	$44 + 8 =$	
18.	$74 + 8 =$	
19.	$5 + 8 =$	
20.	$15 + 8 =$	
21.	$25 + 8 =$	
22.	$35 + 8 =$	

23.	$65 + 8 =$	
24.	$6 + 8 =$	
25.	$16 + 8 =$	
26.	$26 + 8 =$	
27.	$36 + 8 =$	
28.	$86 + 8 =$	
29.	$46 + 8 =$	
30.	$7 + 8 =$	
31.	$17 + 8 =$	
32.	$27 + 8 =$	
33.	$37 + 8 =$	
34.	$77 + 8 =$	
35.	$8 + 8 =$	
36.	$18 + 8 =$	
37.	$28 + 8 =$	
38.	$38 + 8 =$	
39.	$68 + 8 =$	
40.	$9 + 8 =$	
41.	$19 + 8 =$	
42.	$29 + 8 =$	
43.	$39 + 8 =$	
44.	$89 + 8 =$	

B

Number Correct: _____

Improvement: _____

Add by Eight

1.	$8 + 0 =$	
2.	$8 + 1 =$	
3.	$8 + 2 =$	
4.	$2 + 8 =$	
5.	$1 + 8 =$	
6.	$0 + 8 =$	
7.	$3 + 8 =$	
8.	$13 + 8 =$	
9.	$23 + 8 =$	
10.	$33 + 8 =$	
11.	$43 + 8 =$	
12.	$73 + 8 =$	
13.	$4 + 8 =$	
14.	$14 + 8 =$	
15.	$24 + 8 =$	
16.	$34 + 8 =$	
17.	$44 + 8 =$	
18.	$84 + 8 =$	
19.	$5 + 8 =$	
20.	$15 + 8 =$	
21.	$25 + 8 =$	
22.	$35 + 8 =$	

23.	$55 + 8 =$	
24.	$6 + 8 =$	
25.	$16 + 8 =$	
26.	$26 + 8 =$	
27.	$36 + 8 =$	
28.	$66 + 8 =$	
29.	$56 + 8 =$	
30.	$7 + 8 =$	
31.	$17 + 8 =$	
32.	$27 + 8 =$	
33.	$37 + 8 =$	
34.	$67 + 8 =$	
35.	$8 + 8 =$	
36.	$18 + 8 =$	
37.	$28 + 8 =$	
38.	$38 + 8 =$	
39.	$78 + 8 =$	
40.	$9 + 8 =$	
41.	$19 + 8 =$	
42.	$29 + 8 =$	
43.	$39 + 8 =$	
44.	$89 + 8 =$	

A

Number Correct: _____

Subtract by Seven

1.	$17 - 7 =$	
2.	$7 - 7 =$	
3.	$27 - 7 =$	
4.	$8 - 7 =$	
5.	$18 - 7 =$	
6.	$38 - 7 =$	
7.	$9 - 7 =$	
8.	$19 - 7 =$	
9.	$49 - 7 =$	
10.	$10 - 7 =$	
11.	$20 - 7 =$	
12.	$60 - 7 =$	
13.	$11 - 7 =$	
14.	$21 - 7 =$	
15.	$71 - 7 =$	
16.	$12 - 7 =$	
17.	$22 - 7 =$	
18.	$82 - 7 =$	
19.	$13 - 7 =$	
20.	$23 - 7 =$	
21.	$83 - 7 =$	
22.	$14 - 7 =$	

23.	$24 - 7 =$	
24.	$34 - 7 =$	
25.	$64 - 7 =$	
26.	$84 - 7 =$	
27.	$15 - 7 =$	
28.	$25 - 7 =$	
29.	$35 - 7 =$	
30.	$75 - 7 =$	
31.	$55 - 7 =$	
32.	$16 - 7 =$	
33.	$26 - 7 =$	
34.	$36 - 7 =$	
35.	$86 - 7 =$	
36.	$66 - 7 =$	
37.	$90 - 7 =$	
38.	$53 - 7 =$	
39.	$42 - 7 =$	
40.	$71 - 7 =$	
41.	$74 - 7 =$	
42.	$56 - 7 =$	
43.	$95 - 7 =$	
44.	$92 - 7 =$	

B

Number Correct: _____

Improvement: _____

Subtract by Seven

1.	$7 - 7 =$	
2.	$17 - 7 =$	
3.	$27 - 7 =$	
4.	$8 - 7 =$	
5.	$18 - 7 =$	
6.	$68 - 7 =$	
7.	$9 - 7 =$	
8.	$19 - 7 =$	
9.	$79 - 7 =$	
10.	$10 - 7 =$	
11.	$20 - 7 =$	
12.	$90 - 7 =$	
13.	$11 - 7 =$	
14.	$21 - 7 =$	
15.	$91 - 7 =$	
16.	$12 - 7 =$	
17.	$22 - 7 =$	
18.	$42 - 7 =$	
19.	$13 - 7 =$	
20.	$23 - 7 =$	
21.	$43 - 7 =$	
22.	$14 - 7 =$	

23.	$24 - 7 =$	
24.	$34 - 7 =$	
25.	$54 - 7 =$	
26.	$74 - 7 =$	
27.	$15 - 7 =$	
28.	$25 - 7 =$	
29.	$35 - 7 =$	
30.	$65 - 7 =$	
31.	$45 - 7 =$	
32.	$16 - 7 =$	
33.	$26 - 7 =$	
34.	$36 - 7 =$	
35.	$76 - 7 =$	
36.	$56 - 7 =$	
37.	$70 - 7 =$	
38.	$63 - 7 =$	
39.	$52 - 7 =$	
40.	$81 - 7 =$	
41.	$74 - 7 =$	
42.	$66 - 7 =$	
43.	$85 - 7 =$	
44.	$52 - 7 =$	

A

Number Correct: _____

Subtract by Eight

1.	$18 - 8 =$	
2.	$8 - 8 =$	
3.	$28 - 8 =$	
4.	$9 - 8 =$	
5.	$19 - 8 =$	
6.	$39 - 8 =$	
7.	$10 - 8 =$	
8.	$20 - 8 =$	
9.	$50 - 8 =$	
10.	$11 - 8 =$	
11.	$21 - 8 =$	
12.	$71 - 8 =$	
13.	$12 - 8 =$	
14.	$22 - 8 =$	
15.	$82 - 8 =$	
16.	$13 - 8 =$	
17.	$23 - 8 =$	
18.	$83 - 8 =$	
19.	$14 - 8 =$	
20.	$24 - 8 =$	
21.	$34 - 8 =$	
22.	$54 - 8 =$	

23.	$74 - 8 =$	
24.	$15 - 8 =$	
25.	$25 - 8 =$	
26.	$35 - 8 =$	
27.	$85 - 8 =$	
28.	$65 - 8 =$	
29.	$16 - 8 =$	
30.	$26 - 8 =$	
31.	$36 - 8 =$	
32.	$96 - 8 =$	
33.	$76 - 8 =$	
34.	$17 - 8 =$	
35.	$27 - 8 =$	
36.	$37 - 8 =$	
37.	$87 - 8 =$	
38.	$67 - 8 =$	
39.	$70 - 8 =$	
40.	$62 - 8 =$	
41.	$84 - 8 =$	
42.	$66 - 8 =$	
43.	$91 - 8 =$	
44.	$75 - 8 =$	

B

Number Correct: _____

Improvement: _____

Subtract by Eight

1.	$8 - 8 =$	
2.	$18 - 8 =$	
3.	$28 - 8 =$	
4.	$9 - 8 =$	
5.	$19 - 8 =$	
6.	$69 - 8 =$	
7.	$10 - 8 =$	
8.	$20 - 8 =$	
9.	$60 - 8 =$	
10.	$11 - 8 =$	
11.	$21 - 8 =$	
12.	$81 - 8 =$	
13.	$12 - 8 =$	
14.	$22 - 8 =$	
15.	$52 - 8 =$	
16.	$13 - 8 =$	
17.	$23 - 8 =$	
18.	$93 - 8 =$	
19.	$14 - 8 =$	
20.	$24 - 8 =$	
21.	$34 - 8 =$	
22.	$74 - 8 =$	

23.	$94 - 8 =$	
24.	$15 - 8 =$	
25.	$25 - 8 =$	
26.	$35 - 8 =$	
27.	$95 - 8 =$	
28.	$75 - 8 =$	
29.	$16 - 8 =$	
30.	$26 - 8 =$	
31.	$36 - 8 =$	
32.	$66 - 8 =$	
33.	$46 - 8 =$	
34.	$17 - 8 =$	
35.	$27 - 8 =$	
36.	$37 - 8 =$	
37.	$97 - 8 =$	
38.	$77 - 8 =$	
39.	$80 - 8 =$	
40.	$71 - 8 =$	
41.	$53 - 8 =$	
42.	$45 - 8 =$	
43.	$87 - 8 =$	
44.	$54 - 8 =$	

Multiply.

$8 \times 1 = \underline{\quad\quad}$ $8 \times 2 = \underline{\quad\quad}$ $8 \times 3 = \underline{\quad\quad}$ $8 \times 4 = \underline{\quad\quad}$

$8 \times 5 = \underline{\quad\quad}$ $8 \times 6 = \underline{\quad\quad}$ $8 \times 7 = \underline{\quad\quad}$ $8 \times 8 = \underline{\quad\quad}$

$8 \times 9 = \underline{\quad\quad}$ $8 \times 10 = \underline{\quad\quad}$ $8 \times 5 = \underline{\quad\quad}$ $8 \times 6 = \underline{\quad\quad}$

$8 \times 5 = \underline{\quad\quad}$ $8 \times 7 = \underline{\quad\quad}$ $8 \times 5 = \underline{\quad\quad}$ $8 \times 8 = \underline{\quad\quad}$

$8 \times 5 = \underline{\quad\quad}$ $8 \times 9 = \underline{\quad\quad}$ $8 \times 5 = \underline{\quad\quad}$ $8 \times 10 = \underline{\quad\quad}$

$8 \times 6 = \underline{\quad\quad}$ $8 \times 5 = \underline{\quad\quad}$ $8 \times 6 = \underline{\quad\quad}$ $8 \times 7 = \underline{\quad\quad}$

$8 \times 6 = \underline{\quad\quad}$ $8 \times 8 = \underline{\quad\quad}$ $8 \times 6 = \underline{\quad\quad}$ $8 \times 9 = \underline{\quad\quad}$

$8 \times 6 = \underline{\quad\quad}$ $8 \times 7 = \underline{\quad\quad}$ $8 \times 6 = \underline{\quad\quad}$ $8 \times 7 = \underline{\quad\quad}$

$8 \times 8 = \underline{\quad\quad}$ $8 \times 7 = \underline{\quad\quad}$ $8 \times 9 = \underline{\quad\quad}$ $8 \times 7 = \underline{\quad\quad}$

$8 \times 8 = \underline{\quad\quad}$ $8 \times 6 = \underline{\quad\quad}$ $8 \times 8 = \underline{\quad\quad}$ $8 \times 7 = \underline{\quad\quad}$

$8 \times 8 = \underline{\quad\quad}$ $8 \times 9 = \underline{\quad\quad}$ $8 \times 9 = \underline{\quad\quad}$ $8 \times 6 = \underline{\quad\quad}$

$8 \times 9 = \underline{\quad\quad}$ $8 \times 7 = \underline{\quad\quad}$ $8 \times 9 = \underline{\quad\quad}$ $8 \times 8 = \underline{\quad\quad}$

$8 \times 9 = \underline{\quad\quad}$ $8 \times 8 = \underline{\quad\quad}$ $8 \times 6 = \underline{\quad\quad}$ $8 \times 9 = \underline{\quad\quad}$

$8 \times 7 = \underline{\quad\quad}$ $8 \times 9 = \underline{\quad\quad}$ $8 \times 6 = \underline{\quad\quad}$ $8 \times 8 = \underline{\quad\quad}$

$8 \times 9 = \underline{\quad\quad}$ $8 \times 7 = \underline{\quad\quad}$ $8 \times 6 = \underline{\quad\quad}$ $8 \times 8 = \underline{\quad\quad}$

multiply by 8 (5–9)

Multiply.

$9 \times 1 = \underline{\quad\quad}$ $9 \times 2 = \underline{\quad\quad}$ $9 \times 3 = \underline{\quad\quad}$ $9 \times 4 = \underline{\quad\quad}$

$9 \times 5 = \underline{\quad\quad}$ $9 \times 1 = \underline{\quad\quad}$ $9 \times 2 = \underline{\quad\quad}$ $9 \times 1 = \underline{\quad\quad}$

$9 \times 3 = \underline{\quad\quad}$ $9 \times 1 = \underline{\quad\quad}$ $9 \times 4 = \underline{\quad\quad}$ $9 \times 1 = \underline{\quad\quad}$

$9 \times 5 = \underline{\quad\quad}$ $9 \times 1 = \underline{\quad\quad}$ $9 \times 2 = \underline{\quad\quad}$ $9 \times 3 = \underline{\quad\quad}$

$9 \times 2 = \underline{\quad\quad}$ $9 \times 4 = \underline{\quad\quad}$ $9 \times 2 = \underline{\quad\quad}$ $9 \times 5 = \underline{\quad\quad}$

$9 \times 2 = \underline{\quad\quad}$ $9 \times 1 = \underline{\quad\quad}$ $9 \times 2 = \underline{\quad\quad}$ $9 \times 3 = \underline{\quad\quad}$

$9 \times 1 = \underline{\quad\quad}$ $9 \times 3 = \underline{\quad\quad}$ $9 \times 2 = \underline{\quad\quad}$ $9 \times 3 = \underline{\quad\quad}$

$9 \times 4 = \underline{\quad\quad}$ $9 \times 3 = \underline{\quad\quad}$ $9 \times 5 = \underline{\quad\quad}$ $9 \times 3 = \underline{\quad\quad}$

$9 \times 4 = \underline{\quad\quad}$ $9 \times 1 = \underline{\quad\quad}$ $9 \times 4 = \underline{\quad\quad}$ $9 \times 2 = \underline{\quad\quad}$

$9 \times 4 = \underline{\quad\quad}$ $9 \times 3 = \underline{\quad\quad}$ $9 \times 4 = \underline{\quad\quad}$ $9 \times 5 = \underline{\quad\quad}$

$9 \times 4 = \underline{\quad\quad}$ $9 \times 5 = \underline{\quad\quad}$ $9 \times 1 = \underline{\quad\quad}$ $9 \times 5 = \underline{\quad\quad}$

$9 \times 2 = \underline{\quad\quad}$ $9 \times 5 = \underline{\quad\quad}$ $9 \times 3 = \underline{\quad\quad}$ $9 \times 5 = \underline{\quad\quad}$

$9 \times 4 = \underline{\quad\quad}$ $9 \times 2 = \underline{\quad\quad}$ $9 \times 4 = \underline{\quad\quad}$ $9 \times 3 = \underline{\quad\quad}$

$9 \times 5 = \underline{\quad\quad}$ $9 \times 3 = \underline{\quad\quad}$ $9 \times 2 = \underline{\quad\quad}$ $9 \times 4 = \underline{\quad\quad}$

$9 \times 3 = \underline{\quad\quad}$ $9 \times 5 = \underline{\quad\quad}$ $9 \times 2 = \underline{\quad\quad}$ $9 \times 4 = \underline{\quad\quad}$

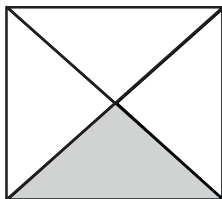
multiply by 9 (1–5)

Exit Ticket Packet

Name _____

Date _____

1. Name the fraction that is shaded.



2. Estimate to partition the rectangle into thirds.

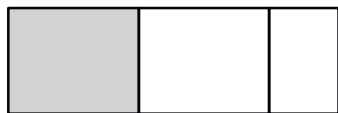


3. A plumber has 12 feet of pipe. He cuts it into pieces that are each 3 feet in length. What fraction of the pipe would one piece represent? (Use your strip from the lesson to help you.)

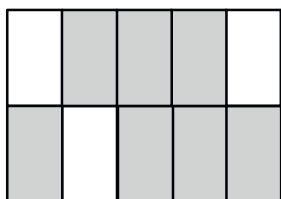
Name _____

Date _____

1. Circle the model that correctly shows $\frac{1}{3}$ shaded.



2.



There are _____ equal parts in all. _____ are shaded.

3. Michael bakes a piece of garlic bread for dinner. He shares it equally with his 3 sisters. Show how Michael and his 3 sisters can each get an equal share of the garlic bread.

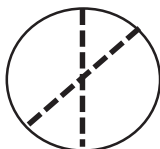
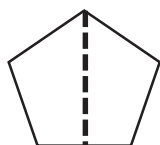
Name _____

Date _____

1. _____ sevenths are shaded.



2. Circle the shapes that are divided into equal parts.



3. Steven wants to equally share his pizza with his 3 sisters. What fraction of the pizza does he and each sister receive?

He and each sister receive _____

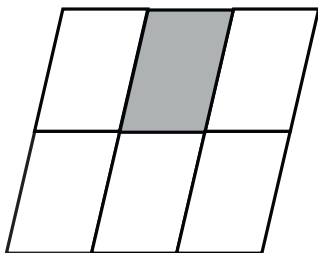
Name _____

Date _____

Each shape is 1 whole. Estimate to equally partition the shape and shade to show the given fraction.

1. $\frac{1}{4}$ 2. $\frac{1}{5}$ 

3. The shape represents 1 whole. Write the fraction for the shaded part.

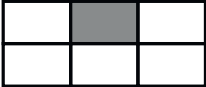


The shaded part is _____.

Name _____

Date _____

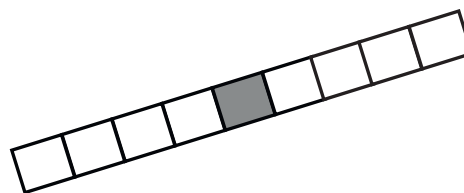
1. Fill in the chart.

	Total Number of Equal Parts	Total Number of Equal Parts Shaded	Unit Form	Fraction Form
				

2. Each image below is 1 whole. Write the fraction that is shaded.







3. Draw two identical rectangles. Partition one into 5 equal parts. Partition the other rectangle into 8 equal parts. Label the unit fractions and shade 1 equal part in each rectangle. Use your rectangles to explain why
- $\frac{1}{5}$
- is bigger than
- $\frac{1}{8}$
- .

Name _____

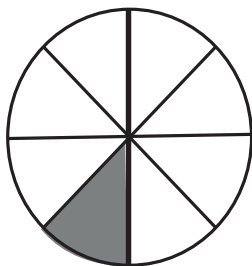
Date _____

1. Complete the number sentence. Estimate to partition the strip equally. Write the unit fraction inside each unit. Shade the answer.

2 fifths =

--

2.



- a. What fraction of the circle is shaded?
- b. What fraction of the circle is not shaded?

3. Complete the chart.

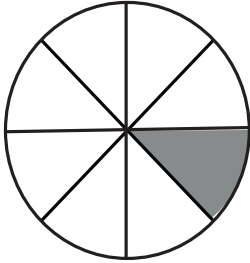
	Total Number of Equal Parts	Total Number of Shaded Equal Parts	Unit Fraction	Fraction Shaded

Name _____

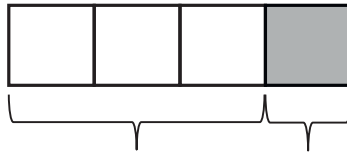
Date _____

1. Write the fraction that is not shaded.

2. There are _____ sixths in 1 whole.



3. The fraction strip is 1 whole. Write fractions to label the shaded and unshaded parts.

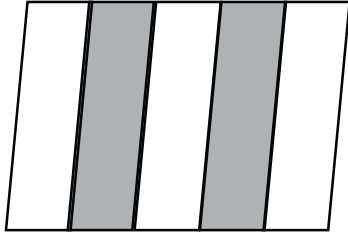


4. Justin mows part of his lawn. Then, his lawnmower runs out of gas. He has not mowed $\frac{9}{10}$ of the lawn.
What part of his lawn is mowed?

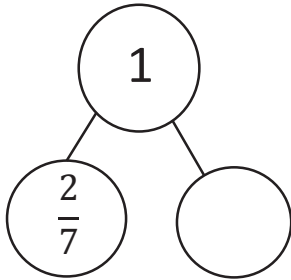
Name _____

Date _____

1. Draw a number bond that shows the shaded and the unshaded parts of the shape below. Then, show each part decomposed into unit fractions.



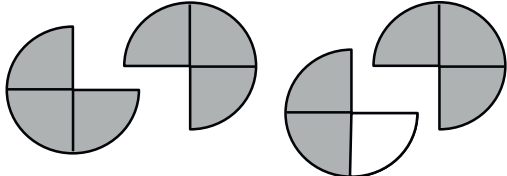
2. Complete the number bond. Draw a shape that has shaded and unshaded parts that match the completed number bond.



Name _____

Date _____

1. Each shape represents 1 whole. Fill in the chart.

	Unit Fraction	Total Number of Units Shaded	Fraction Shaded
			

2. Estimate to draw and shade units on the fraction strips. Solve.

a. 4 thirds =

--	--

b. _____ = $\frac{10}{4}$

--	--	--

Name _____

Date _____

1. Each fraction strip is 1 whole. All the fraction strips are equal in length. Color 1 fractional unit in each strip. Then, circle the largest fraction and draw a star to the right of the smallest fraction.

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

2. Use $>$, $<$, or $=$ to compare.

a. 1 eighth



1 tenth

b. 1 whole




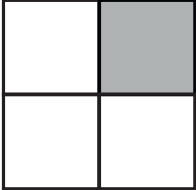
5 fifths

c. $\frac{1}{7}$  $\frac{1}{6}$

Name _____

Date _____

1. Fill in the blank with a fraction to make the statement true. Draw a matching model.

			
$\frac{1}{7}$ is less than <input style="width: 30px; height: 20px;" type="text"/>		$\frac{1}{4}$ is greater than <input style="width: 30px; height: 20px;" type="text"/>	

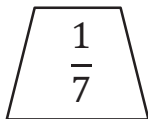
2. Tatiana ate $\frac{1}{2}$ of a small carrot. Louis ate $\frac{1}{4}$ of a large carrot. Who ate more? Use words and pictures to explain your answer.

Name _____

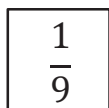
Date _____

Each shape represents the unit fraction. Draw a picture representing a possible whole.

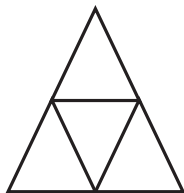
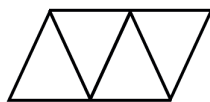
1.



2.



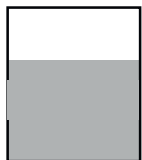
3. Aileen and Jack used the same triangle representing the unit fraction $\frac{1}{4}$ to create 1 whole. Who did it correctly? Explain your answer.

Aileen's
DrawingJack's
Drawing

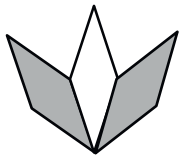
Name _____

Date _____

Ms. Silverstein asked the class to draw a model showing $\frac{2}{3}$ shaded. Karol and Deb drew the models below. Whose model is correct? Explain how you know.



Karol's
Diagram



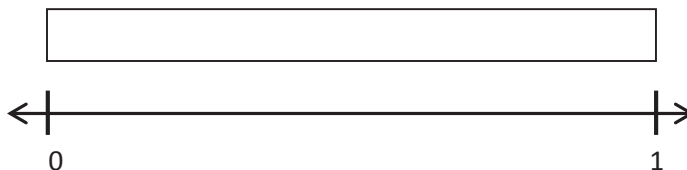
Deb's
Diagram

Name _____

Date _____

1. Draw a number bond for the fractional unit. Partition the fraction strip, and draw and label the fractions on the number line. Be sure to label the fractions at 0 and 1.

Sixths



2. Ms. Metcalf wants to share \$1 equally among 5 students. Draw a number bond and a number line to help explain your answer.

a. What fraction of a dollar will each student get?

b. How much money will each student get?

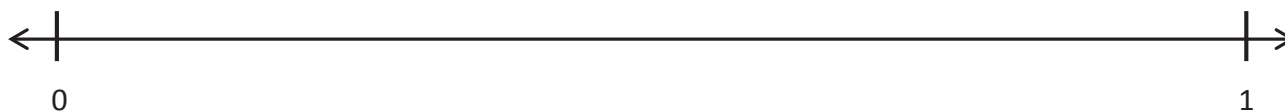
Name _____

Date _____

1. Estimate to label the given fraction on the number line. Be sure to label the fractions at 0 and 1. Write the fractions above the number line. Draw a number bond to match your number line.



2. Partition the number line. Then, place each fraction on the number line: $\frac{3}{6}$, $\frac{1}{6}$, and $\frac{5}{6}$.



Name _____

Date _____

1. Estimate to equally partition and label the fractions on the number line. Label the wholes as fractions, and box them.



2. Draw a number line with endpoints 0 and 2. Label the wholes. Estimate to partition each whole into sixths, and label them. Box the fractions that are located at the same points as whole numbers.

Name _____

Date _____

1. Locate and label the following fractions on the number line.

$$\frac{7}{3}$$

$$\frac{2}{3}$$

$$\frac{4}{3}$$




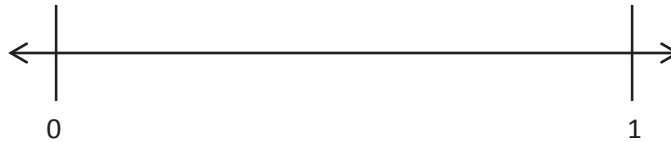
2. Katie bought 2 one-gallon bottles of juice for a party. Her guests drank $\frac{6}{4}$ gallons of juice. What fraction of a gallon of juice is left over? Draw a number line to show, and explain your answer.


Name _____

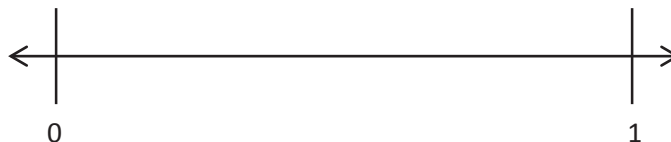
Date _____

Place the two fractions on the number line. Circle the fraction with the distance closest to 0. Then, compare using $>$, $<$, or $=$.

1. $\frac{3}{5}$  $\frac{1}{5}$



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

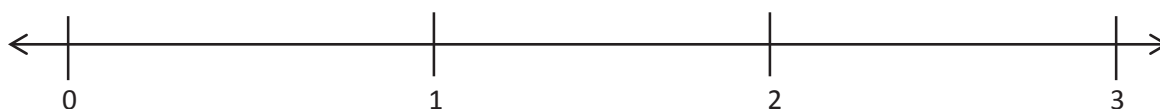


3. Mr. Brady draws a fraction on the board. Ken says it's $\frac{2}{3}$, and Dan said it's $\frac{3}{2}$. Do both of these fractions mean the same thing? If not, which fraction is larger? Draw a number line to model $\frac{2}{3}$ and $\frac{3}{2}$. Use words, pictures, and numbers to explain your comparison.

Name _____

Date _____

1. Divide the number line into the given fractional unit. Then, place the fractions. Write each whole as a fraction.

fourths $\frac{2}{4}$ $\frac{10}{4}$ $\frac{7}{4}$ 

2. Use the number line above to compare the following fractions using $>$, $<$, or $=$.

$$\frac{3}{4} \bigcirc \frac{5}{4}$$

$$\frac{7}{4} \bigcirc \frac{4}{4}$$

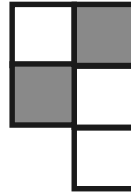
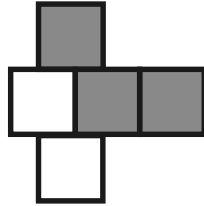
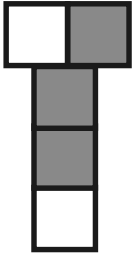
$$3 \bigcirc \frac{6}{4}$$

3. Use the number line from Problem 1. Which is larger: 2 wholes or $\frac{9}{4}$? Use words, pictures, and numbers to explain your answer.

Name _____

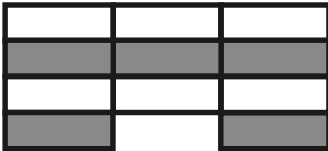
Date _____

1. Label what fraction of the figure is shaded. Then, circle the fractions that are equal.

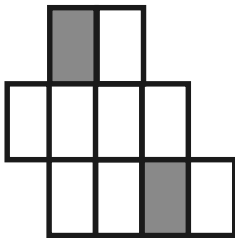


2. Label the shaded fraction. Draw 2 different representations of the same fractional amount.

a.



b.



Name _____

Date _____

Claire went home after school and told her mother that 1 whole is the same as $\frac{2}{2}$ and $\frac{6}{6}$. Her mother asked why, but Claire couldn't explain. Use a number line and words to help Claire show and explain why

$$1 = \frac{2}{2} = \frac{6}{6}$$

Name _____

Date _____

1. Draw and label two models that show equivalent fractions.

2. Draw a number line that proves your thinking about Problem 1.

Name _____

Date _____

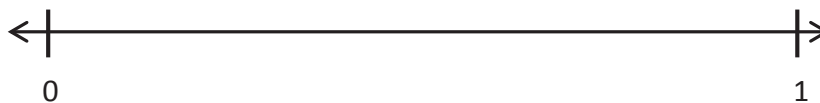
Henry and Maddie were in a pie-eating contest. The pies were cut either into thirds or sixths. Henry picked up a pie cut into sixths and ate $\frac{4}{6}$ of it in 1 minute. Maddie picked up a pie cut into thirds. What fraction of her pie does Maddie have to eat in 1 minute to tie with Henry? Draw a number line, and use words to explain your answer.

Name _____

Date _____

1. Complete the number bond as indicated by the fractional unit. Partition the number line into the given fractional unit, and label the fractions. Rename 0 and 1 as fractions of the given unit.

Fourths

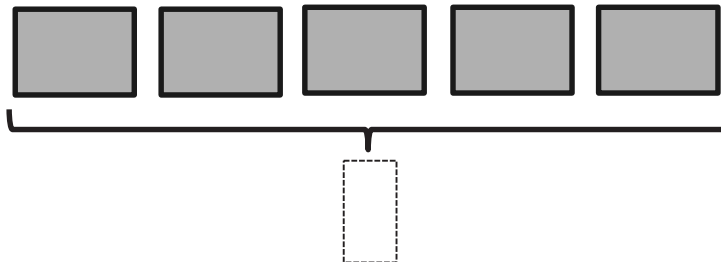
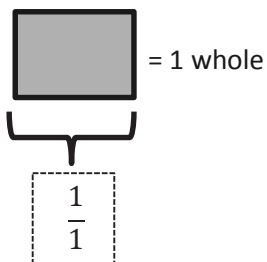


2. How many copies of $\frac{1}{4}$ does it take to make 1 whole? What's the fraction for 1 whole in this case? Use the number line or the number bond in Problem 1 to help you explain.

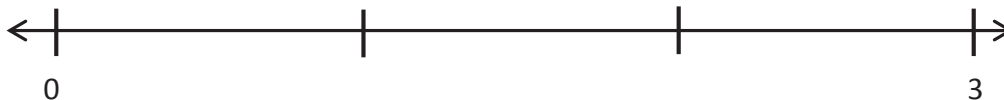
Name _____

Date _____

1. Label the model as a fraction inside the box.



2. Partition the wholes into thirds. Rename the fraction for 3 wholes. Use the number line and words to explain your answer.



Name _____

Date _____

1. Solve.

2 thirds is equal to _____ twelfths.

$$\frac{2}{3} = \frac{\quad}{12}$$

2. Draw and label two models that show fractions equivalent to those in Problem 1.

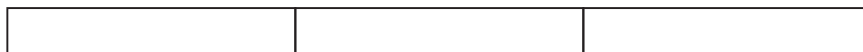
3. Use words to explain why the two fractions in Problem 1 are equal.

Name _____

Date _____

1. Shade the models to compare the fractions.

2 thirds



2 eighths



Which is larger, 2 thirds or 2 eighths? Why? Use words to explain.

2. Draw a model for each fraction. Circle the smaller fraction.

3 sevenths

3 fourths

Name _____

Date _____

1. Complete the number sentence by writing $>$, $<$, or $=$.

$$\frac{3}{5} \text{ _____ } \frac{3}{9}$$

2. Draw 2 number lines with endpoints 0 and 1 to show each fraction in Problem 1. Use the number lines to explain how you know your comparison in Problem 1 is correct.

Assessment Packet

Name _____

Date _____



1. Natalie folded 1 whole fraction strip as pictured above.
 - a. How many equal parts did she divide the whole into?
 - b. Label each equal part with a unit fraction.
 - c. Identify the fraction of the strip she shaded.
 - d. Identify the fraction of the strip she did not shade.
2. Draw 2 rectangles the same size. Each rectangle represents 1 whole.
 - a. Partition each rectangle into 3 equal parts. Shade and label a fraction greater than 1.
 - b. Draw a number bond that shows 1 whole rectangle as 3 unit fractions.

3. The bakery had a chocolate cake and a vanilla cake that were exactly the same size. Mr. Chu bought $\frac{1}{4}$ of the chocolate cake. Mrs. Ramirez bought $\frac{1}{6}$ of the vanilla cake. Who bought a larger piece of cake? Explain your answer using words, pictures, and numbers.

4. Natalie explained, "My drawing shows a picture of $\frac{3}{2}$." Kosmo says, "It looks like a picture of $\frac{3}{4}$ to me."
- a. Show and explain how they could both be correct by choosing different wholes. Use words, pictures, and numbers.



- b. Natalie said to Kosmo, "One part can represent either 1 half or 1 fourth. That must mean $\frac{1}{2} = \frac{1}{4}$." Do you agree with Natalie? Use words, pictures, and numbers to explain your reasoning.

Name _____

Date _____

1. Jerry put 7 equally spaced hooks on a straight wire so students could hang up their coats. The whole length is from the first hook to the last hook.
- a. On the picture below, label the fraction of the wire's length where each hook is located.



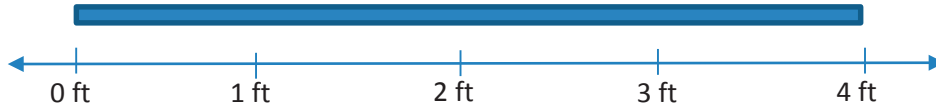
- b. At what fraction is Betsy's coat if she hangs it at the halfway point?
- c. Write a fraction that is equivalent to your answer for Part (b).
2. Jerry used the picture below to show his son how to find a fraction equal to $\frac{2}{3}$. Explain what Jerry might have said and done using words, pictures, and numbers.



3. Jerry and his son have the exact same granola bars. Jerry has eaten $\frac{3}{6}$ of his granola bar. His son has eaten $\frac{3}{8}$ of his own granola bar. Who has eaten more? Explain your answer using words, pictures, and numbers.

4. Jerry has a fruit roll that is 4 feet long.

- a. Label the number line to show how Jerry might cut his fruit roll into pieces $\frac{1}{3}$ of a foot long. Label every fraction on the number line, including renaming the wholes.



- b. Jerry cut his fruit roll into pieces that are $\frac{1}{3}$ of a foot long. Jerry and his 2 sons each eat one piece. What fraction of the whole fruit roll is eaten? Explain your answer using words, pictures, and numbers.
- c. Jerry's son says that 1 third is the same as 2 sixths. Do you agree? Why or why not? Use words, pictures, and numbers to explain your answer.