



Diagnostic Assessment 1

Multiplying by 2, 5, and 10

Name: _____

Pretest Date: _____

Post Test Date: _____

Solve.

1 $2 \times 4 =$ _____

2 $5 \times 3 =$ _____

3 $3 \times 2 =$ _____

4 $10 \times 2 =$ _____

5 $9 \times 2 =$ _____

6 $2 \times 2 =$ _____

7 $5 \times 6 =$ _____

8 $2 \times 10 =$ _____

9 $7 \times 10 =$ _____

10 $2 \times 7 =$ _____

11 $10 \times 3 =$ _____

12 $5 \times 7 =$ _____

13 $5 \times 5 =$ _____

14 $10 \times 10 =$ _____

15 $10 \times 4 =$ _____

16 $5 \times 2 =$ _____

17 $5 \times 10 =$ _____

18 $8 \times 10 =$ _____

19 $6 \times 2 =$ _____

20 $8 \times 5 =$ _____

21 $5 \times 4 =$ _____

22 $9 \times 10 =$ _____

23 $5 \times 9 =$ _____

24 $8 \times 2 =$ _____

Diagnostic Assessment 1
Answer Key, Analysis, and Correlations

Item	Skill		
	$\times 2$	$\times 5$	$\times 10$
1. 2×4	8		
2. 5×3		15	
3. 3×2	6		
4. 10×2	20		
5. 9×2	18		
6. 2×2	4		
7. 5×6		30	
8. 2×10			20
9. 7×10			70
10. 2×7	14		
11. 10×3			30
12. 5×7		35	
13. 5×5		25	
14. 10×10			100
15. 10×4			40
16. 5×2		10	
17. 5×10			50
18. 8×10			80
19. 6×2	12		
20. 8×5		40	
21. 5×4		20	
22. 9×10			90
23. 5×9		45	
24. 8×2	16		
Topic Score	/8	/8	/8
Practice	2a	2b	2b

You can practice additional fact strategies in 4a–4i.



Diagnostic Assessment 2

Multiplying by 0, 1, 3, and 4

Name: _____

Pretest Date: _____

Post Test Date: _____

Solve.

1 $1 \times 9 =$ _____

2 $4 \times 3 =$ _____

3 $1 \times 8 =$ _____

4 $9 \times 0 =$ _____

5 $3 \times 0 =$ _____

6 $1 \times 4 =$ _____

7 $1 \times 1 =$ _____

8 $4 \times 4 =$ _____

9 $4 \times 8 =$ _____

10 $0 \times 7 =$ _____

11 $0 \times 6 =$ _____

12 $4 \times 7 =$ _____

13 $3 \times 1 =$ _____

14 $3 \times 2 =$ _____

15 $2 \times 1 =$ _____

16 $1 \times 3 =$ _____

17 $4 \times 6 =$ _____

18 $3 \times 3 =$ _____

19 $3 \times 6 =$ _____

20 $0 \times 5 =$ _____

21 $5 \times 4 =$ _____

22 $0 \times 1 =$ _____

23 $4 \times 3 =$ _____

24 $3 \times 9 =$ _____

Diagnostic Assessment 2
Answer Key, Analysis, and Correlations

Item	Skill			
	$\times 0$	$\times 1$	$\times 3$	$\times 4$
1. 1×9		9		
2. 4×3				12
3. 1×8		8		
4. 9×0	0			
5. 3×0	0			
6. 1×4		4		
7. 1×1		1		
8. 4×4				16
9. 4×8				32
10. 0×7	0			
11. 0×6	0			
12. 4×7				28
13. 3×1			3	
14. 3×2			6	
15. 2×1		2		
16. 1×3		3		
17. 4×6				24
18. 3×3			9	
19. 3×6			18	
20. 0×5	0			
21. 5×4				20
22. 0×1	0			
23. 4×3			12	
24. 3×9			27	
Topic Score	/6	/6	/6	/6
Practice	3m	2c	2c	2c

You can practice additional fact strategies in Timed Mixed Practice.



Diagnostic Assessment 3

Multiplying by 6, 7, 8, and 9

Name: _____

Pretest Date: _____

Post Test Date: _____

Solve.

1 $6 \times 9 =$ _____

2 $8 \times 3 =$ _____

3 $6 \times 8 =$ _____

4 $9 \times 8 =$ _____

5 $3 \times 9 =$ _____

6 $6 \times 4 =$ _____

7 $1 \times 6 =$ _____

8 $8 \times 4 =$ _____

9 $1 \times 8 =$ _____

10 $9 \times 7 =$ _____

11 $9 \times 6 =$ _____

12 $8 \times 7 =$ _____

13 $7 \times 1 =$ _____

14 $7 \times 2 =$ _____

15 $2 \times 6 =$ _____

16 $6 \times 3 =$ _____

17 $8 \times 6 =$ _____

18 $3 \times 7 =$ _____

19 $7 \times 6 =$ _____

20 $9 \times 5 =$ _____

21 $5 \times 8 =$ _____

22 $9 \times 1 =$ _____

23 $4 \times 7 =$ _____

24 $7 \times 9 =$ _____

Diagnostic Assessment 3
Answer Key, Analysis, and Correlations

Item	Skill			
	$\times 6$	$\times 7$	$\times 8$	$\times 9$
1. 6×9	54			
2. 8×3			24	
3. 6×8	48			
4. 9×8				72
5. 3×9				27
6. 6×4	24			
7. 1×6	6			
8. 8×4			32	
9. 1×8			8	
10. 9×7				63
11. 9×6				54
12. 8×7			56	
13. 7×1		7		
14. 7×2		14		
15. 2×6	12			
16. 6×3	18			
17. 8×6			48	
18. 3×7		21		
19. 7×6		42		
20. 9×5				45
21. 5×8			40	
22. 9×1				9
23. 4×7		28		
24. 7×9		63		
Topic Score	/6	/6	/6	/6
Practice	2d	2d	2e	2e

You can practice additional fact strategies in 4a.



Diagnostic Assessment 4

Dividing by 2, 5, and 10

Name: _____

Pretest Date: _____

Post Test Date: _____

Solve.

1 $18 \div 2 =$ _____

2 $10 \div 5 =$ _____

3 $14 \div 2 =$ _____

4 $60 \div 10 =$ _____

5 $16 \div 2 =$ _____

6 $12 \div 2 =$ _____

7 $15 \div 5 =$ _____

8 $20 \div 2 =$ _____

9 $70 \div 10 =$ _____

10 $10 \div 2 =$ _____

11 $30 \div 10 =$ _____

12 $20 \div 5 =$ _____

13 $25 \div 5 =$ _____

14 $100 \div 10 =$ _____

15 $40 \div 10 =$ _____

16 $30 \div 5 =$ _____

17 $50 \div 10 =$ _____

18 $80 \div 10 =$ _____

19 $8 \div 2 =$ _____

20 $35 \div 5 =$ _____

21 $40 \div 5 =$ _____

22 $90 \div 10 =$ _____

23 $45 \div 5 =$ _____

24 $6 \div 2 =$ _____

Diagnostic Assessment 4
Answer Key, Analysis, and Correlations

Item	Skill		
	$\div 2$	$\div 5$	$\div 10$
1. $18 \div 2$	9		
2. $10 \div 5$		2	
3. $14 \div 2$	7		
4. $60 \div 10$			6
5. $16 \div 2$	8		
6. $12 \div 2$	6		
7. $15 \div 5$		3	
8. $20 \div 2$	10		
9. $70 \div 10$			7
10. $10 \div 2$	5		
11. $30 \div 10$			3
12. $20 \div 5$		4	
13. $25 \div 5$		5	
14. $100 \div 10$			10
15. $40 \div 10$			4
16. $30 \div 5$		6	
17. $50 \div 10$			5
18. $80 \div 10$			8
19. $8 \div 2$	4		
20. $35 \div 5$		7	
21. $40 \div 5$		8	
22. $90 \div 10$			9
23. $45 \div 5$		9	
24. $6 \div 2$	3		
Topic Score	/8	/8	/8
Practice	2a	2b	2b



Diagnostic Assessment 5

Dividing by 1, 3, and 4

Name: _____

Pretest Date: _____

Post Test Date: _____

Solve.

1 $9 \div 1 =$ _____

2 $30 \div 3 =$ _____

3 $4 \div 1 =$ _____

4 $40 \div 4 =$ _____

5 $7 \div 1 =$ _____

6 $8 \div 1 =$ _____

7 $12 \div 3 =$ _____

8 $20 \div 4 =$ _____

9 $32 \div 4 =$ _____

10 $2 \div 1 =$ _____

11 $12 \div 4 =$ _____

12 $27 \div 3 =$ _____

13 $24 \div 3 =$ _____

14 $28 \div 4 =$ _____

15 $24 \div 4 =$ _____

16 $9 \div 3 =$ _____

17 $8 \div 4 =$ _____

18 $6 \div 1 =$ _____

19 $5 \div 1 =$ _____

20 $18 \div 3 =$ _____

21 $21 \div 3 =$ _____

22 $36 \div 4 =$ _____

23 $15 \div 3 =$ _____

24 $3 \div 1 =$ _____

Diagnostic Assessment 5

Answer Key, Analysis, and Correlations

Item	Skill		
	$\div 1$	$\div 3$	$\div 4$
1. $9 \div 1$	9		
2. $30 \div 3$		10	
3. $4 \div 1$	4		
4. $40 \div 4$			10
5. $7 \div 1$	7		
6. $8 \div 1$	8		
7. $12 \div 3$		4	
8. $20 \div 4$			5
9. $32 \div 4$			8
10. $2 \div 1$	2		
11. $12 \div 4$			3
12. $27 \div 3$		9	
13. $24 \div 3$		8	
14. $28 \div 4$			7
15. $24 \div 4$			6
16. $9 \div 3$		3	
17. $8 \div 4$			2
18. $6 \div 1$	6		
19. $5 \div 1$	5		
20. $18 \div 3$		6	
21. $21 \div 3$		7	
22. $36 \div 4$			9
23. $15 \div 3$		5	
24. $3 \div 1$	3		
Topic Score	/8	/8	/8
Practice	2c	2c	2c

You can practice additional mixed division strategy in 2g, 4g, 5l, 10a, 10b, 12j, and 15a.



Diagnostic Assessment 6

Dividing by 6, 7, 8 and 9

Name: _____

Pretest Date: _____

Post Test Date: _____

Solve.

1 $54 \div 6 =$ _____

2 $70 \div 7 =$ _____

3 $18 \div 9 =$ _____

4 $40 \div 8 =$ _____

5 $36 \div 6 =$ _____

6 $48 \div 6 =$ _____

7 $63 \div 7 =$ _____

8 $54 \div 9 =$ _____

9 $32 \div 8 =$ _____

10 $30 \div 6 =$ _____

11 $63 \div 9 =$ _____

12 $42 \div 7 =$ _____

13 $27 \div 9 =$ _____

14 $56 \div 8 =$ _____

15 $72 \div 8 =$ _____

16 $28 \div 7 =$ _____

17 $36 \div 9 =$ _____

18 $24 \div 8 =$ _____

19 $42 \div 6 =$ _____

20 $49 \div 7 =$ _____

21 $21 \div 7 =$ _____

22 $64 \div 8 =$ _____

23 $81 \div 9 =$ _____

24 $24 \div 6 =$ _____

Diagnostic Assessment 6
Answer Key, Analysis, and Correlations

Item	Skill			
	$\div 6$	$\div 7$	$\div 8$	$\div 9$
1. $54 \div 6$	9			
2. $70 \div 7$		10		
3. $18 \div 9$				2
4. $40 \div 8$			5	
5. $36 \div 6$	6			
6. $48 \div 6$	8			
7. $63 \div 7$		9		
8. $54 \div 9$				6
9. $32 \div 8$			4	
10. $30 \div 6$	5			
11. $63 \div 9$				7
12. $42 \div 7$		6		
13. $27 \div 9$				3
14. $56 \div 8$			7	
15. $72 \div 8$			9	
16. $28 \div 7$		4		
17. $36 \div 9$				4
18. $24 \div 8$			3	
19. $42 \div 6$	7			
20. $49 \div 7$		7		
21. $21 \div 7$		3		
22. $64 \div 8$			8	
23. $81 \div 9$				9
24. $24 \div 6$	4			
Topic Score	/6	/6	/6	/6
Practice	2d	2d	2e	2e

You can practice additional mixed division strategy in 2g, 4b, 4g, 5l, 10a, 10b, 12j, and 15a.