

GRADE 3 BOOK OF SPRINTS

New York State Common Core
Mathematics Curriculum



GRADE 3 • MODULE 1

Properties of Multiplication and Division and Solving Problems with Units of 2–5 and 10

Module Overview	i
Topic A: Multiplication and the Meaning of the Factors	3.A.1
Topic B: Division as an Unknown Factor Problem.....	3.B.1
Topic C: Analyze Arrays to Multiply Using Units of 2 and 3.....	3.C.1
Topic D: Division Using Units of 2 and 3.....	3.D.1
Topic E: Multiplication and Division Using Units of 4.....	3.E.1
Topic F: Distributive Property and Problem Solving Using Units of 2–5 and 10	3.F.1
Module Assessments	3.S.1

A

Correct _____

Add or subtract.

1	$0 + 2 =$		23	$2 + 4 =$	
2	$2 + 2 =$		24	$2 + 6 =$	
3	$4 + 2 =$		25	$2 + 8 =$	
4	$6 + 2 =$		26	$2 + 10 =$	
5	$8 + 2 =$		27	$2 + 12 =$	
6	$10 + 2 =$		28	$2 + 14 =$	
7	$12 + 2 =$		29	$2 + 16 =$	
8	$14 + 2 =$		30	$2 + 18 =$	
9	$16 + 2 =$		31	$0 + 22 =$	
10	$18 + 2 =$		32	$22 + 22 =$	
11	$20 - 2 =$		33	$44 + 22 =$	
12	$18 - 2 =$		34	$66 + 22 =$	
13	$16 - 2 =$		35	$88 - 22 =$	
14	$14 - 2 =$		36	$66 - 22 =$	
15	$12 - 2 =$		37	$44 - 22 =$	
16	$10 - 2 =$		38	$22 - 22 =$	
17	$8 - 2 =$		39	$22 + 0 =$	
18	$6 - 2 =$		40	$22 + 22 =$	
19	$4 - 2 =$		41	$22 + 44 =$	
20	$2 - 2 =$		42	$66 + 22 =$	
21	$2 + 0 =$		43	$888 - 222 =$	
22	$2 + 2 =$		44	$666 - 222 =$	

© Bill Davidson

B

Improvement _____

Correct _____

Add or subtract.

1	$2 + 0 =$		23	$4 + 2 =$	
2	$2 + 2 =$		24	$6 + 2 =$	
3	$2 + 4 =$		25	$8 + 2 =$	
4	$2 + 6 =$		26	$10 + 2 =$	
5	$2 + 8 =$		27	$12 + 2 =$	
6	$2 + 10 =$		28	$14 + 2 =$	
7	$2 + 12 =$		29	$16 + 2 =$	
8	$2 + 14 =$		30	$18 + 2 =$	
9	$2 + 16 =$		31	$0 + 22 =$	
10	$2 + 18 =$		32	$22 + 22 =$	
11	$20 - 2 =$		33	$22 + 44 =$	
12	$18 - 2 =$		34	$66 + 22 =$	
13	$16 - 2 =$		35	$88 - 22 =$	
14	$14 - 2 =$		36	$66 - 22 =$	
15	$12 - 2 =$		37	$44 - 22 =$	
16	$10 - 2 =$		38	$22 - 22 =$	
17	$8 - 2 =$		39	$22 + 0 =$	
18	$6 - 2 =$		40	$22 + 22 =$	
19	$4 - 2 =$		41	$22 + 44 =$	
20	$2 - 2 =$		42	$66 + 22 =$	
21	$0 + 2 =$		43	$666 - 222 =$	
22	$2 + 2 =$		44	$888 - 222 =$	

© Bill Davidson

A

Correct _____

Solve.

1	$2 + 2 =$		23	$7 + 7 =$	
2	2 twos =		24	2 sevens =	
3	$5 + 5 =$		25	$9 + 9 =$	
4	2 fives =		26	2 nines =	
5	$2 + 2 + 2 =$		27	$8 + 8 =$	
6	3 twos =		28	2 eights =	
7	$2 + 2 + 2 + 2 =$		29	$3 + 3 + 3 =$	
8	4 twos =		30	3 threes =	
9	$5 + 5 + 5 =$		31	$4 + 4 + 4 =$	
10	3 fives =		32	3 fours =	
11	$5 + 5 + 5 + 5 =$		33	$3 + 3 + 3 + 3 =$	
12	4 fives =		34	4 threes =	
13	2 fours =		35	4 fives =	
14	$4 + 4 =$		36	$4 + 4 + 4 + 4 + 4 =$	
15	2 threes =		37	3 sixes =	
16	$3 + 3 =$		38	$6 + 6 + 6 =$	
17	2 sixes =		39	3 eights =	
18	$6 + 6 =$		40	$8 + 8 + 8 =$	
19	5 twos =		41	3 sevens =	
20	$2 + 2 + 2 + 2 + 2 =$		42	$7 + 7 + 7 =$	
21	5 fives =		43	3 nines =	
22	$5 + 5 + 5 + 5 + 5 =$		44	$9 + 9 + 9 =$	

© Bill Davidson

B

Improvement _____ # Correct _____

Solve.

1	$5 + 5 =$		23	$8 + 8 =$	
2	2 fives =		24	2 eights =	
3	$2 + 2 =$		25	$7 + 7 =$	
4	2 twos =		26	2 sevens =	
5	$5 + 5 + 5 =$		27	$9 + 9 =$	
6	3 fives =		28	2 nines =	
7	$5 + 5 + 5 + 5 =$		29	$3 + 3 + 3 + 3 =$	
8	4 fives =		30	4 threes =	
9	$2 + 2 + 2 =$		31	$4 + 4 + 4 =$	
10	3 twos =		32	3 fours =	
11	$2 + 2 + 2 + 2 =$		33	$3 + 3 + 3 =$	
12	4 twos =		34	3 threes =	
13	2 threes =		35	4 fives =	
14	$3 + 3 =$		36	$4 + 4 + 4 + 4 + 4 =$	
15	2 sixes =		37	3 sevens =	
16	$6 + 6 =$		38	$7 + 7 + 7 =$	
17	2 fours =		39	3 nines =	
18	$4 + 4 =$		40	$9 + 9 + 9 =$	
19	5 fives =		41	3 sixes =	
20	$5 + 5 + 5 + 5 + 5 =$		42	$6 + 6 + 6 =$	
21	5 twos =		43	3 eights =	
22	$2 + 2 + 2 + 2 + 2 =$		44	$8 + 8 + 8 =$	

© Bill Davidson

A

Correct _____

Add or multiply.

1	$5 + 5 + 5 =$	23	$3 + 3 + 3 + 3 =$
2	$3 \times 5 =$	24	$4 \times 3 =$
3	$5 \times 3 =$	25	$3 \times 4 =$
4	$2 + 2 + 2 =$	26	$3 + 3 + 3 =$
5	$3 \times 2 =$	27	$3 \times 3 =$
6	$2 \times 3 =$	28	$3 + 3 + 3 + 3 + 3 =$
7	$5 + 5 =$	29	$5 \times 3 =$
8	$2 \times 5 =$	30	$3 \times 5 =$
9	$5 \times 2 =$	31	$7 + 7 =$
10	$2 + 2 + 2 + 2 =$	32	$2 \times 7 =$
11	$4 \times 2 =$	33	$7 \times 2 =$
12	$2 \times 4 =$	34	$9 + 9 =$
13	$2 + 2 + 2 + 2 + 2 =$	35	$2 \times 9 =$
14	$5 \times 2 =$	36	$9 \times 2 =$
15	$2 \times 5 =$	37	$6 + 6 =$
16	$3 + 3 =$	38	$6 \times 2 =$
17	$2 \times 3 =$	39	$2 \times 6 =$
18	$3 \times 2 =$	40	$8 + 8 =$
19	$5 + 5 + 5 + 5 =$	41	$2 \times 8 =$
20	$4 \times 5 =$	42	$8 \times 2 =$
21	$5 \times 4 =$	43	$7 + 7 + 7 + 7 =$
22	$2 \times 2 =$	44	$4 \times 7 =$

© Bill Davidson

B

Improvement _____

Correct _____

Add or multiply.

1	$2 + 2 + 2 =$	23	$4 + 4 + 4 =$
2	$3 \times 2 =$	24	$3 \times 4 =$
3	$2 \times 3 =$	25	$4 \times 3 =$
4	$5 + 5 + 5 =$	26	$4 + 4 + 4 + 4 =$
5	$3 \times 5 =$	27	$4 \times 4 =$
6	$5 \times 3 =$	28	$4 + 4 + 4 + 4 + 4 =$
7	$2 + 2 + 2 + 2 =$	29	$4 \times 5 =$
8	$4 \times 2 =$	30	$5 \times 4 =$
9	$2 \times 4 =$	31	$6 + 6 =$
10	$5 + 5 =$	32	$6 \times 2 =$
11	$2 \times 5 =$	33	$2 \times 6 =$
12	$5 \times 2 =$	34	$8 + 8 =$
13	$3 + 3 =$	35	$2 \times 8 =$
14	$2 \times 3 =$	36	$8 \times 2 =$
15	$3 \times 2 =$	37	$7 + 7 =$
16	$2 + 2 + 2 + 2 + 2 =$	38	$2 \times 7 =$
17	$5 \times 2 =$	39	$7 \times 2 =$
18	$2 \times 5 =$	40	$9 + 9 =$
19	$5 + 5 + 5 + 5 =$	41	$2 \times 9 =$
20	$4 \times 5 =$	42	$9 \times 2 =$
21	$5 \times 4 =$	43	$6 + 6 + 6 + 6 =$
22	$2 \times 2 =$	44	$4 \times 6 =$

© Bill Davidson

Multiply.

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

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

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

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

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

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

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

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

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

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

$2 \times 4 = \underline{\quad}$ $2 \times 5 = \underline{\quad}$ $2 \times 1 = \underline{\quad}$ $2 \times 5 = \underline{\quad}$

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

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

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

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

Multiply.

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

$2 \times 5 = \underline{\quad}$ $2 \times 6 = \underline{\quad}$ $2 \times 7 = \underline{\quad}$ $2 \times 8 = \underline{\quad}$

$2 \times 9 = \underline{\quad}$ $2 \times 10 = \underline{\quad}$ $2 \times 5 = \underline{\quad}$ $2 \times 6 = \underline{\quad}$

$2 \times 5 = \underline{\quad}$ $2 \times 7 = \underline{\quad}$ $2 \times 5 = \underline{\quad}$ $2 \times 8 = \underline{\quad}$

$2 \times 5 = \underline{\quad}$ $2 \times 9 = \underline{\quad}$ $2 \times 5 = \underline{\quad}$ $2 \times 10 = \underline{\quad}$

$2 \times 6 = \underline{\quad}$ $2 \times 5 = \underline{\quad}$ $2 \times 6 = \underline{\quad}$ $2 \times 7 = \underline{\quad}$

$2 \times 6 = \underline{\quad}$ $2 \times 8 = \underline{\quad}$ $2 \times 6 = \underline{\quad}$ $2 \times 9 = \underline{\quad}$

$2 \times 6 = \underline{\quad}$ $2 \times 7 = \underline{\quad}$ $2 \times 6 = \underline{\quad}$ $2 \times 7 = \underline{\quad}$

$2 \times 8 = \underline{\quad}$ $2 \times 7 = \underline{\quad}$ $2 \times 9 = \underline{\quad}$ $2 \times 7 = \underline{\quad}$

$2 \times 8 = \underline{\quad}$ $2 \times 6 = \underline{\quad}$ $2 \times 8 = \underline{\quad}$ $2 \times 7 = \underline{\quad}$

$2 \times 8 = \underline{\quad}$ $2 \times 9 = \underline{\quad}$ $2 \times 9 = \underline{\quad}$ $2 \times 6 = \underline{\quad}$

$2 \times 9 = \underline{\quad}$ $2 \times 7 = \underline{\quad}$ $2 \times 9 = \underline{\quad}$ $2 \times 8 = \underline{\quad}$

$2 \times 9 = \underline{\quad}$ $2 \times 8 = \underline{\quad}$ $2 \times 6 = \underline{\quad}$ $2 \times 9 = \underline{\quad}$

$2 \times 7 = \underline{\quad}$ $2 \times 9 = \underline{\quad}$ $2 \times 6 = \underline{\quad}$ $2 \times 8 = \underline{\quad}$

$2 \times 9 = \underline{\quad}$ $2 \times 7 = \underline{\quad}$ $2 \times 6 = \underline{\quad}$ $2 \times 8 = \underline{\quad}$

Multiply.

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

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

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

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

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

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

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

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

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

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

$3 \times 4 = \underline{\quad}$ $3 \times 5 = \underline{\quad}$ $3 \times 1 = \underline{\quad}$ $3 \times 5 = \underline{\quad}$

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

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

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

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

Multiply.

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

$3 \times 5 = \underline{\quad}$ $3 \times 6 = \underline{\quad}$ $3 \times 7 = \underline{\quad}$ $3 \times 8 = \underline{\quad}$

$3 \times 9 = \underline{\quad}$ $3 \times 10 = \underline{\quad}$ $3 \times 5 = \underline{\quad}$ $3 \times 6 = \underline{\quad}$

$3 \times 5 = \underline{\quad}$ $3 \times 7 = \underline{\quad}$ $3 \times 5 = \underline{\quad}$ $3 \times 8 = \underline{\quad}$

$3 \times 5 = \underline{\quad}$ $3 \times 9 = \underline{\quad}$ $3 \times 5 = \underline{\quad}$ $3 \times 10 = \underline{\quad}$

$3 \times 6 = \underline{\quad}$ $3 \times 5 = \underline{\quad}$ $3 \times 6 = \underline{\quad}$ $3 \times 7 = \underline{\quad}$

$3 \times 6 = \underline{\quad}$ $3 \times 8 = \underline{\quad}$ $3 \times 6 = \underline{\quad}$ $3 \times 9 = \underline{\quad}$

$3 \times 6 = \underline{\quad}$ $3 \times 7 = \underline{\quad}$ $3 \times 6 = \underline{\quad}$ $3 \times 7 = \underline{\quad}$

$3 \times 8 = \underline{\quad}$ $3 \times 7 = \underline{\quad}$ $3 \times 9 = \underline{\quad}$ $3 \times 7 = \underline{\quad}$

$3 \times 8 = \underline{\quad}$ $3 \times 6 = \underline{\quad}$ $3 \times 8 = \underline{\quad}$ $3 \times 7 = \underline{\quad}$

$3 \times 8 = \underline{\quad}$ $3 \times 9 = \underline{\quad}$ $3 \times 9 = \underline{\quad}$ $3 \times 6 = \underline{\quad}$

$3 \times 9 = \underline{\quad}$ $3 \times 7 = \underline{\quad}$ $3 \times 9 = \underline{\quad}$ $3 \times 8 = \underline{\quad}$

$3 \times 9 = \underline{\quad}$ $3 \times 8 = \underline{\quad}$ $3 \times 6 = \underline{\quad}$ $3 \times 9 = \underline{\quad}$

$3 \times 7 = \underline{\quad}$ $3 \times 9 = \underline{\quad}$ $3 \times 6 = \underline{\quad}$ $3 \times 8 = \underline{\quad}$

$3 \times 9 = \underline{\quad}$ $3 \times 7 = \underline{\quad}$ $3 \times 6 = \underline{\quad}$ $3 \times 8 = \underline{\quad}$

A

Correct _____

Solve.

1	$2 \times 2 =$		23	$___ \times 2 = 20$	
2	$3 \times 2 =$		24	$___ \times 2 = 4$	
3	$4 \times 2 =$		25	$___ \times 2 = 6$	
4	$5 \times 2 =$		26	$20 \div 2 =$	
5	$1 \times 2 =$		27	$10 \div 2 =$	
6	$4 \div 2 =$		28	$2 \div 2 =$	
7	$6 \div 2 =$		29	$4 \div 2 =$	
8	$10 \div 2 =$		30	$6 \div 2 =$	
9	$2 \div 2 =$		31	$___ \times 2 = 12$	
10	$8 \div 2 =$		32	$___ \times 2 = 14$	
11	$6 \times 2 =$		33	$___ \times 2 = 18$	
12	$7 \times 2 =$		34	$___ \times 2 = 16$	
13	$8 \times 2 =$		35	$14 \div 2 =$	
14	$9 \times 2 =$		36	$18 \div 2 =$	
15	$10 \times 2 =$		37	$12 \div 2 =$	
16	$16 \div 2 =$		38	$16 \div 2 =$	
17	$14 \div 2 =$		39	$11 \times 2 =$	
18	$18 \div 2 =$		40	$22 \div 2 =$	
19	$12 \div 2 =$		41	$12 \times 2 =$	
20	$20 \div 2 =$		42	$24 \div 2 =$	
21	$___ \times 2 = 10$		43	$14 \times 2 =$	
22	$___ \times 2 = 2$		44	$28 \div 2 =$	

© Bill Davidson

B

Improvement _____ # Correct _____

Solve.

1	$1 \times 2 =$		23	$___ \times 2 = 4$	
2	$2 \times 2 =$		24	$___ \times 2 = 20$	
3	$3 \times 2 =$		25	$___ \times 2 = 6$	
4	$4 \times 2 =$		26	$4 \div 2 =$	
5	$5 \times 2 =$		27	$2 \div 2 =$	
6	$6 \div 2 =$		28	$20 \div 2 =$	
7	$4 \div 2 =$		29	$10 \div 2 =$	
8	$8 \div 2 =$		30	$6 \div 2 =$	
9	$2 \div 2 =$		31	$___ \times 2 = 12$	
10	$10 \div 2 =$		32	$___ \times 2 = 16$	
11	$10 \times 2 =$		33	$___ \times 2 = 18$	
12	$6 \times 2 =$		34	$___ \times 2 = 14$	
13	$7 \times 2 =$		35	$16 \div 2 =$	
14	$8 \times 2 =$		36	$18 \div 2 =$	
15	$9 \times 2 =$		37	$12 \div 2 =$	
16	$14 \div 2 =$		38	$14 \div 2 =$	
17	$12 \div 2 =$		39	$11 \times 2 =$	
18	$16 \div 2 =$		40	$22 \div 2 =$	
19	$20 \div 2 =$		41	$12 \times 2 =$	
20	$18 \div 2 =$		42	$24 \div 2 =$	
21	$___ \times 2 = 2$		43	$13 \times 2 =$	
22	$___ \times 2 = 10$		44	$26 \div 2 =$	

© Bill Davidson

A

Correct _____

Solve.

1	$2 \times 3 =$		23	$___ \times 3 = 10$	
2	$3 \times 3 =$		24	$___ \times 3 = 6$	
3	$4 \times 3 =$		25	$___ \times 3 = 9$	
4	$5 \times 3 =$		26	$30 \div 3 =$	
5	$1 \times 3 =$		27	$15 \div 3 =$	
6	$6 \div 3 =$		28	$3 \div 3 =$	
7	$9 \div 3 =$		29	$6 \div 3 =$	
8	$15 \div 3 =$		30	$9 \div 3 =$	
9	$3 \div 3 =$		31	$___ \times 3 = 18$	
10	$12 \div 3 =$		32	$___ \times 3 = 21$	
11	$6 \times 3 =$		33	$___ \times 3 = 27$	
12	$7 \times 3 =$		34	$___ \times 3 = 24$	
13	$8 \times 3 =$		35	$21 \div 3 =$	
14	$9 \times 3 =$		36	$27 \div 3 =$	
15	$10 \times 3 =$		37	$18 \div 3 =$	
16	$24 \div 3 =$		38	$24 \div 3 =$	
17	$21 \div 3 =$		39	$11 \times 3 =$	
18	$27 \div 3 =$		40	$33 \div 3 =$	
19	$18 \div 3 =$		41	$12 \times 3 =$	
20	$30 \div 3 =$		42	$36 \div 3 =$	
21	$___ \times 3 = 15$		43	$13 \times 3 =$	
22	$___ \times 3 = 3$		44	$39 \div 3 =$	

© Bill Davidson

B

Improvement _____ # Correct _____

Solve.

1	$1 \times 3 =$		23	$\underline{\quad} \times 3 = 6$	
2	$2 \times 3 =$		24	$\underline{\quad} \times 3 = 30$	
3	$3 \times 3 =$		25	$\underline{\quad} \times 3 = 9$	
4	$4 \times 3 =$		26	$6 \div 3 =$	
5	$5 \times 3 =$		27	$3 \div 3 =$	
6	$9 \div 3 =$		28	$30 \div 3 =$	
7	$6 \div 3 =$		29	$15 \div 3 =$	
8	$12 \div 3 =$		30	$9 \div 3 =$	
9	$3 \div 3 =$		31	$\underline{\quad} \times 3 = 18$	
10	$15 \div 3 =$		32	$\underline{\quad} \times 3 = 24$	
11	$10 \times 3 =$		33	$\underline{\quad} \times 3 = 27$	
12	$6 \times 3 =$		34	$\underline{\quad} \times 3 = 21$	
13	$7 \times 3 =$		35	$24 \div 3 =$	
14	$8 \times 3 =$		36	$27 \div 3 =$	
15	$9 \times 3 =$		37	$18 \div 3 =$	
16	$21 \div 3 =$		38	$21 \div 3 =$	
17	$18 \div 3 =$		39	$11 \times 3 =$	
18	$24 \div 3 =$		40	$33 \div 3 =$	
19	$30 \div 3 =$		41	$12 \times 3 =$	
20	$27 \div 3 =$		42	$36 \div 3 =$	
21	$\underline{\quad} \times 3 = 3$		43	$13 \times 3 =$	
22	$\underline{\quad} \times 3 = 15$		44	$39 \div 3 =$	

© Bill Davidson

Multiply.

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

$4 \times 5 = \underline{\quad}$ $4 \times 1 = \underline{\quad}$ $4 \times 2 = \underline{\quad}$ $4 \times 1 = \underline{\quad}$

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

$4 \times 5 = \underline{\quad}$ $4 \times 1 = \underline{\quad}$ $4 \times 2 = \underline{\quad}$ $4 \times 3 = \underline{\quad}$

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

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

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

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

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

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

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

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

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

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

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

© Bill Davidson

Multiply.

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

$4 \times 5 = \underline{\quad}$ $4 \times 6 = \underline{\quad}$ $4 \times 7 = \underline{\quad}$ $4 \times 8 = \underline{\quad}$

$4 \times 9 = \underline{\quad}$ $4 \times 10 = \underline{\quad}$ $4 \times 5 = \underline{\quad}$ $4 \times 6 = \underline{\quad}$

$4 \times 5 = \underline{\quad}$ $4 \times 7 = \underline{\quad}$ $4 \times 5 = \underline{\quad}$ $4 \times 8 = \underline{\quad}$

$4 \times 5 = \underline{\quad}$ $4 \times 9 = \underline{\quad}$ $4 \times 5 = \underline{\quad}$ $4 \times 10 = \underline{\quad}$

$4 \times 6 = \underline{\quad}$ $4 \times 5 = \underline{\quad}$ $4 \times 6 = \underline{\quad}$ $4 \times 7 = \underline{\quad}$

$4 \times 6 = \underline{\quad}$ $4 \times 8 = \underline{\quad}$ $4 \times 6 = \underline{\quad}$ $4 \times 9 = \underline{\quad}$

$4 \times 6 = \underline{\quad}$ $4 \times 7 = \underline{\quad}$ $4 \times 6 = \underline{\quad}$ $4 \times 7 = \underline{\quad}$

$4 \times 8 = \underline{\quad}$ $4 \times 7 = \underline{\quad}$ $4 \times 9 = \underline{\quad}$ $4 \times 7 = \underline{\quad}$

$4 \times 8 = \underline{\quad}$ $4 \times 6 = \underline{\quad}$ $4 \times 8 = \underline{\quad}$ $4 \times 7 = \underline{\quad}$

$4 \times 8 = \underline{\quad}$ $4 \times 9 = \underline{\quad}$ $4 \times 9 = \underline{\quad}$ $4 \times 6 = \underline{\quad}$

$4 \times 9 = \underline{\quad}$ $4 \times 7 = \underline{\quad}$ $4 \times 9 = \underline{\quad}$ $4 \times 8 = \underline{\quad}$

$4 \times 9 = \underline{\quad}$ $4 \times 8 = \underline{\quad}$ $4 \times 6 = \underline{\quad}$ $4 \times 9 = \underline{\quad}$

$4 \times 7 = \underline{\quad}$ $4 \times 9 = \underline{\quad}$ $4 \times 6 = \underline{\quad}$ $4 \times 8 = \underline{\quad}$

$4 \times 9 = \underline{\quad}$ $4 \times 7 = \underline{\quad}$ $4 \times 6 = \underline{\quad}$ $4 \times 8 = \underline{\quad}$

© Bill Davidson

A

Correct _____

Multiply or divide.

1	$2 \times 4 =$		23	$\underline{\quad} \times 4 = 40$	
2	$3 \times 4 =$		24	$\underline{\quad} \times 4 = 8$	
3	$4 \times 4 =$		25	$\underline{\quad} \times 4 = 12$	
4	$5 \times 4 =$		26	$40 \div 4 =$	
5	$1 \times 4 =$		27	$20 \div 4 =$	
6	$8 \div 4 =$		28	$4 \div 4 =$	
7	$12 \div 4 =$		29	$8 \div 4 =$	
8	$20 \div 4 =$		30	$12 \div 4 =$	
9	$4 \div 4 =$		31	$\underline{\quad} \times 4 = 24$	
10	$16 \div 4 =$		32	$\underline{\quad} \times 4 = 28$	
11	$6 \times 4 =$		33	$\underline{\quad} \times 4 = 36$	
12	$7 \times 4 =$		34	$\underline{\quad} \times 4 = 32$	
13	$8 \times 4 =$		35	$28 \div 4 =$	
14	$9 \times 4 =$		36	$36 \div 4 =$	
15	$10 \times 4 =$		37	$24 \div 4 =$	
16	$32 \div 4 =$		38	$32 \div 4 =$	
17	$28 \div 4 =$		39	$11 \times 4 =$	
18	$36 \div 4 =$		40	$44 \div 4 =$	
19	$24 \div 4 =$		41	$12 \div 4 =$	
20	$40 \div 4 =$		42	$48 \div 4 =$	
21	$\underline{\quad} \times 4 = 20$		43	$14 \times 4 =$	
22	$\underline{\quad} \times 4 = 4$		44	$56 \div 4 =$	

© Bill Davidson

B

Improvement _____

Correct _____

Multiply or divide.

1	$1 \times 4 =$		23	$__ \times 4 = 8$	
2	$2 \times 4 =$		24	$__ \times 4 = 40$	
3	$3 \times 4 =$		25	$__ \times 4 = 12$	
4	$4 \times 4 =$		26	$8 \div 4 =$	
5	$5 \times 4 =$		27	$4 \div 4 =$	
6	$12 \div 4 =$		28	$40 \div 4 =$	
7	$8 \div 4 =$		29	$20 \div 4 =$	
8	$16 \div 4 =$		30	$12 \div 4 =$	
9	$4 \div 4 =$		31	$__ \times 4 = 12$	
10	$20 \div 4 =$		32	$__ \times 4 = 16$	
11	$10 \times 4 =$		33	$__ \times 4 = 36$	
12	$6 \times 4 =$		34	$__ \times 4 = 28$	
13	$7 \times 4 =$		35	$32 \div 4 =$	
14	$8 \times 4 =$		36	$36 \div 4 =$	
15	$9 \times 4 =$		37	$24 \div 4 =$	
16	$28 \div 4 =$		38	$28 \div 4 =$	
17	$24 \div 4 =$		39	$11 \times 4 =$	
18	$32 \div 4 =$		40	$44 \div 4 =$	
19	$40 \div 4 =$		41	$12 \times 4 =$	
20	$36 \div 4 =$		42	$48 \div 4 =$	
21	$__ \times 4 = 4$		43	$13 \times 4 =$	
22	$__ \times 4 = 20$		44	$52 \div 4 =$	

© Bill Davidson

A

Correct _____

Add or subtract.

1	$0 + 5 =$		23	$10 + 5 =$	
2	$5 + 5 =$		24	$15 + 5 =$	
3	$10 + 5 =$		25	$20 + 5 =$	
4	$15 + 5 =$		26	$25 + 5 =$	
5	$20 + 5 =$		27	$30 + 5 =$	
6	$25 + 5 =$		28	$35 + 5 =$	
7	$30 + 5 =$		29	$40 + 5 =$	
8	$35 + 5 =$		30	$45 + 5 =$	
9	$40 + 5 =$		31	$0 + 50 =$	
10	$45 + 5 =$		32	$50 + 50 =$	
11	$50 - 5 =$		33	$50 + 5 =$	
12	$45 - 5 =$		34	$55 + 5 =$	
13	$40 - 5 =$		35	$60 - 5 =$	
14	$35 - 5 =$		36	$55 - 5 =$	
15	$30 - 5 =$		37	$60 + 5 =$	
16	$25 - 5 =$		38	$65 + 5 =$	
17	$20 - 5 =$		39	$70 - 5 =$	
18	$15 - 5 =$		40	$65 - 5 =$	
19	$10 - 5 =$		41	$100 + 50 =$	
20	$5 - 5 =$		42	$150 + 50 =$	
21	$5 + 0 =$		43	$200 - 50 =$	
22	$5 + 5 =$		44	$150 - 50 =$	

© Bill Davidson

B

Improvement _____

Correct _____

Add or subtract.

1	$5 + 0 =$		23	$10 + 5 =$	
2	$5 + 5 =$		24	$15 + 5 =$	
3	$5 + 10 =$		25	$20 + 5 =$	
4	$5 + 15 =$		26	$25 + 5 =$	
5	$5 + 20 =$		27	$30 + 5 =$	
6	$5 + 25 =$		28	$35 + 5 =$	
7	$5 + 30 =$		29	$40 + 5 =$	
8	$5 + 35 =$		30	$45 + 5 =$	
9	$5 + 40 =$		31	$50 + 0 =$	
10	$5 + 45 =$		32	$50 + 50 =$	
11	$50 - 5 =$		33	$5 + 50 =$	
12	$45 - 5 =$		34	$5 + 55 =$	
13	$40 - 5 =$		35	$60 - 5 =$	
14	$35 - 5 =$		36	$55 - 5 =$	
15	$30 - 5 =$		37	$5 + 60 =$	
16	$25 - 5 =$		38	$5 + 65 =$	
17	$20 - 5 =$		39	$70 - 5 =$	
18	$15 - 5 =$		40	$65 - 5 =$	
19	$10 - 5 =$		41	$50 + 100 =$	
20	$5 - 5 =$		42	$50 + 150 =$	
21	$0 + 5 =$		43	$200 - 50 =$	
22	$5 + 5 =$		44	$150 - 50 =$	

© Bill Davidson

A

Correct _____

Fill-in the blank.

1	0, 5, __		23	35, __, 45	
2	5, 10, __		24	15, __, 25	
3	10, 15, __		25	40, __, 50	
4	15, 20, __		26	25, __, 15	
5	20, 25, __		27	50, __, 40	
6	25, 30, __		28	20, __, 10	
7	30, 35, __		29	45, __, 35	
8	35, 40, __		30	15, __, 5	
9	40, 45, __		31	40, __, 30	
10	50, 45, __		32	10, __, 0	
11	45, 40, __		33	35, __, 25	
12	40, 35, __		34	__, 10, 5	
13	35, 30, __		35	__, 35, 30	
14	30, 25, __		36	__, 15, 10	
15	25, 20, __		37	__, 40, 35	
16	20, 15, __		38	__, 20, 15	
17	15, 10, __		39	__, 45, 40	
18	0, __, 10		40	50, 55, __	
19	25, __, 35		41	45, 50, __	
20	5, __, 15		42	65, __, 55	
21	30, __, 40		43	55, 60, __	
22	10, __, 20		44	60, 65, __	

© Bill Davidson

B

Improvement _____

Correct _____

Fill-in the blank.

1	5, 10, __		23	15, __, 25	
2	10, 15, __		24	35, __, 45	
3	15, 20, __		25	30, __, 20	
4	20, 25, __		26	25, __, 15	
5	25, 30, __		27	50, __, 40	
6	30, 35, __		28	20, __, 10	
7	35, 40, __		29	45, __, 35	
8	40, 45, __		30	15, __, 5	
9	50, 45, __		31	35, __, 25	
10	45, 40, __		32	10, __, 0	
11	40, 35, __		33	35, __, 25	
12	35, 30, __		34	__, 15, 10	
13	30, 25, __		35	__, 40, 35	
14	25, 20, __		36	__, 20, 15	
15	20, 15, __		37	__, 45, 40	
16	15, 10, __		38	__, 10, 5	
17	0, __, 10		39	__, 35, 30	
18	25, __, 35		40	45, 50, __	
19	5, __, 15		41	50, 55, __	
20	30, __, 40		42	55, 60, __	
21	10, __, 20		43	65, __, 55	
22	35, __, 45		44	__, 60, 55	

© Bill Davidson

Multiply.

$5 \times 1 = \underline{\quad}$ $5 \times 2 = \underline{\quad}$ $5 \times 3 = \underline{\quad}$ $5 \times 4 = \underline{\quad}$

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

$5 \times 3 = \underline{\quad}$ $5 \times 1 = \underline{\quad}$ $5 \times 4 = \underline{\quad}$ $5 \times 1 = \underline{\quad}$

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

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

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

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

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

$5 \times 4 = \underline{\quad}$ $5 \times 1 = \underline{\quad}$ $5 \times 4 = \underline{\quad}$ $5 \times 2 = \underline{\quad}$

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

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

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

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

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

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



Learning Resources CoSer 501 Educational Media

Equal Opportunity Notice

CA BOCES hereby advises students, parents, employees and the general public that it offers employment, programs and educational opportunities, including vocational education opportunities, without regard to gender, race, color, national origin, handicap or any other legally protected status. Inquiries regarding this nondiscrimination policy and grievance procedures may be directed to: Human Resources Director, Cattaraugus-Allegany BOCES, 1825 Windfall Road, Olean, NY 14760; 716-376-8237.