

A

Correct _____

Multiply.

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

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B

Improvement _____

Correct _____

Multiply.

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

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A

Correct _____

Multiply.

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

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B

Improvement _____ # Correct _____

Multiply.

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

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Lesson 2:

Apply the distributive and commutative properties to relate multiplication facts $5 \times n + n$ to $6 \times n$ and $n \times 6$ where n is the size of the unit.

Date:

7/31/13

A

Correct _____

Multiply or divide.

1	$2 \times 8 =$		23	$___ \times 8 = 80$	
2	$3 \times 8 =$		24	$___ \times 8 = 32$	
3	$4 \times 8 =$		25	$___ \times 8 = 24$	
4	$5 \times 8 =$		26	$80 \div 8 =$	
5	$1 \times 8 =$		27	$40 \div 8 =$	
6	$16 \div 8 =$		28	$8 \div 1 =$	
7	$24 \div 8 =$		29	$16 \div 8 =$	
8	$40 \div 8 =$		30	$24 \div 8 =$	
9	$8 \div 1 =$		31	$___ \times 8 = 48$	
10	$32 \div 8 =$		32	$___ \times 8 = 56$	
11	$6 \times 8 =$		33	$___ \times 8 = 72$	
12	$7 \times 8 =$		34	$___ \times 8 = 64$	
13	$8 \times 8 =$		35	$56 \div 8 =$	
14	$9 \times 8 =$		36	$72 \div 8 =$	
15	$10 \times 8 =$		37	$48 \div 8 =$	
16	$64 \div 8 =$		38	$64 \div 8 =$	
17	$56 \div 8 =$		39	$11 \times 8 =$	
18	$72 \div 8 =$		40	$88 \div 8 =$	
19	$48 \div 8 =$		41	$12 \times 8 =$	
20	$80 \div 8 =$		42	$96 \div 8 =$	
21	$___ \times 8 = 40$		43	$14 \times 8 =$	
22	$___ \times 8 = 16$		44	$112 \div 8 =$	

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B

Improvement _____

Correct _____

Multiply or divide.

1	$1 \times 8 =$		23	$__ \times 8 = 48$	
2	$2 \times 8 =$		24	$__ \times 8 = 80$	
3	$3 \times 8 =$		25	$__ \times 8 = 24$	
4	$4 \times 8 =$		26	$16 \div 8 =$	
5	$5 \times 8 =$		27	$8 \div 1 =$	
6	$24 \div 8 =$		28	$80 \div 8 =$	
7	$16 \div 8 =$		29	$40 \div 8 =$	
8	$32 \div 8 =$		30	$24 \div 8 =$	
9	$8 \div 1 =$		31	$__ \times 8 = 64$	
10	$40 \div 8 =$		32	$__ \times 8 = 32$	
11	$10 \times 8 =$		33	$__ \times 8 = 72$	
12	$6 \times 8 =$		34	$__ \times 8 = 56$	
13	$7 \times 8 =$		35	$64 \div 8 =$	
14	$8 \times 8 =$		36	$72 \div 8 =$	
15	$9 \times 8 =$		37	$48 \div 8 =$	
16	$56 \div 8 =$		38	$56 \div 8 =$	
17	$48 \div 8 =$		39	$11 \times 8 =$	
18	$64 \div 8 =$		40	$88 \div 8 =$	
19	$80 \div 8 =$		41	$12 \times 8 =$	
20	$72 \div 8 =$		42	$96 \div 8 =$	
21	$__ \times 8 = 16$		43	$13 \times 8 =$	
22	$__ \times 8 = 40$		44	$104 \div 8 =$	

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A

Correct _____

Multiply or divide.

1	$2 \times 9 =$		23	$\underline{\quad} \times 9 = 90$	
2	$3 \times 9 =$		24	$\underline{\quad} \times 9 = 18$	
3	$4 \times 9 =$		25	$\underline{\quad} \times 9 = 27$	
4	$5 \times 9 =$		26	$90 \div 9 =$	
5	$1 \times 9 =$		27	$45 \div 9 =$	
6	$18 \div 9 =$		28	$9 \div 9 =$	
7	$27 \div 9 =$		29	$18 \div 9 =$	
8	$45 \div 9 =$		30	$27 \div 9 =$	
9	$9 \div 9 =$		31	$\underline{\quad} \times 9 = 54$	
10	$36 \div 9 =$		32	$\underline{\quad} \times 9 = 63$	
11	$6 \times 9 =$		33	$\underline{\quad} \times 9 = 81$	
12	$7 \times 9 =$		34	$\underline{\quad} \times 9 = 72$	
13	$8 \times 9 =$		35	$63 \div 9 =$	
14	$9 \times 9 =$		36	$81 \div 9 =$	
15	$10 \times 9 =$		37	$54 \div 9 =$	
16	$72 \div 9 =$		38	$72 \div 9 =$	
17	$63 \div 9 =$		39	$11 \times 9 =$	
18	$81 \div 9 =$		40	$99 \div 9 =$	
19	$54 \div 9 =$		41	$12 \times 9 =$	
20	$90 \div 9 =$		42	$108 \div 9 =$	
21	$\underline{\quad} \times 9 = 45$		43	$14 \times 9 =$	
22	$\underline{\quad} \times 9 = 9$		44	$126 \div 9 =$	

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B

Improvement _____

Correct _____

Multiply or divide.

1	$1 \times 9 =$		23	$__ \times 9 = 18$	
2	$2 \times 9 =$		24	$__ \times 9 = 90$	
3	$3 \times 9 =$		25	$__ \times 9 = 27$	
4	$4 \times 9 =$		26	$18 \div 9 =$	
5	$5 \times 9 =$		27	$9 \div 9 =$	
6	$27 \div 9 =$		28	$90 \div 9 =$	
7	$18 \div 9 =$		29	$45 \div 9 =$	
8	$36 \div 9 =$		30	$27 \div 9 =$	
9	$9 \div 9 =$		31	$__ \times 9 = 27$	
10	$45 \div 9 =$		32	$__ \times 9 = 36$	
11	$10 \times 9 =$		33	$__ \times 9 = 81$	
12	$6 \times 9 =$		34	$__ \times 9 = 63$	
13	$7 \times 9 =$		35	$72 \div 9 =$	
14	$8 \times 9 =$		36	$81 \div 9 =$	
15	$9 \times 9 =$		37	$54 \div 9 =$	
16	$63 \div 9 =$		38	$63 \div 9 =$	
17	$54 \div 9 =$		39	$11 \times 9 =$	
18	$72 \div 9 =$		40	$99 \div 9 =$	
19	$90 \div 9 =$		41	$12 \times 9 =$	
20	$81 \div 9 =$		42	$108 \div 9 =$	
21	$__ \times 9 = 9$		43	$13 \times 9 =$	
22	$__ \times 9 = 45$		44	$117 \div 9 =$	

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A

Correct _____

Complete the number sentence.

1	$\underline{\hspace{1cm}} \times 1 = 2$		23	$9 \div \underline{\hspace{1cm}} = 9$	
2	$\underline{\hspace{1cm}} \times 1 = 3$		24	$8 \times \underline{\hspace{1cm}} = 8$	
3	$\underline{\hspace{1cm}} \times 1 = 4$		25	$\underline{\hspace{1cm}} \times 1 = 1$	
4	$\underline{\hspace{1cm}} \times 1 = 9$		26	$0 \div 3 = \underline{\hspace{1cm}}$	
5	$8 \times \underline{\hspace{1cm}} = 0$		27	$\underline{\hspace{1cm}} \times 1 = 7$	
6	$9 \times \underline{\hspace{1cm}} = 0$		28	$6 \times \underline{\hspace{1cm}} = 0$	
7	$4 \times \underline{\hspace{1cm}} = 0$		29	$4 \times \underline{\hspace{1cm}} = 4$	
8	$5 \times \underline{\hspace{1cm}} = 5$		30	$0 \div 8 = \underline{\hspace{1cm}}$	
9	$6 \times \underline{\hspace{1cm}} = 6$		31	$0 \times \underline{\hspace{1cm}} = 0$	
10	$7 \times \underline{\hspace{1cm}} = 7$		32	$1 \div 1 = \underline{\hspace{1cm}}$	
11	$3 \times \underline{\hspace{1cm}} = 3$		33	$\underline{\hspace{1cm}} \times 1 = 24$	
12	$0 \div 1 = \underline{\hspace{1cm}}$		34	$17 \times \underline{\hspace{1cm}} = 0$	
13	$0 \div 2 = \underline{\hspace{1cm}}$		35	$32 \times \underline{\hspace{1cm}} = 32$	
14	$0 \div 3 = \underline{\hspace{1cm}}$		36	$0 \div 19 = \underline{\hspace{1cm}}$	
15	$0 \div 6 = \underline{\hspace{1cm}}$		37	$46 \times \underline{\hspace{1cm}} = 0$	
16	$1 \times \underline{\hspace{1cm}} = 1$		38	$0 \div 51 = \underline{\hspace{1cm}}$	
17	$4 \div \underline{\hspace{1cm}} = 4$		39	$64 \times \underline{\hspace{1cm}} = 64$	
18	$5 \div \underline{\hspace{1cm}} = 5$		40	$\underline{\hspace{1cm}} \times 1 = 79$	
19	$6 \div \underline{\hspace{1cm}} = 6$		41	$0 \div 82 = \underline{\hspace{1cm}}$	
20	$8 \div \underline{\hspace{1cm}} = 8$		42	$\underline{\hspace{1cm}} \times 1 = 96$	
21	$\underline{\hspace{1cm}} \times 1 = 5$		43	$27 \times \underline{\hspace{1cm}} = 27$	
22	$3 \times \underline{\hspace{1cm}} = 0$		44	$43 \times \underline{\hspace{1cm}} = 0$	

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B Improvement _____ # Correct _____

Complete the number sentence.

1	$\underline{\quad} \times 1 = 3$		23	$8 \div \underline{\quad} = 8$	
2	$\underline{\quad} \times 1 = 4$		24	$7 \times \underline{\quad} = 7$	
3	$\underline{\quad} \times 1 = 5$		25	$\underline{\quad} \times 1 = 1$	
4	$\underline{\quad} \times 1 = 8$		26	$0 \div 5 = \underline{\quad}$	
5	$7 \times \underline{\quad} = 0$		27	$\underline{\quad} \times 1 = 9$	
6	$8 \times \underline{\quad} = 0$		28	$5 \times \underline{\quad} = 0$	
7	$3 \times \underline{\quad} = 0$		29	$9 \times \underline{\quad} = 9$	
8	$4 \times \underline{\quad} = 4$		30	$0 \div 6 = \underline{\quad}$	
9	$5 \times \underline{\quad} = 5$		31	$1 \div 1 = \underline{\quad}$	
10	$6 \times \underline{\quad} = 6$		32	$0 \times \underline{\quad} = 0$	
11	$2 \times \underline{\quad} = 2$		33	$\underline{\quad} \times 1 = 34$	
12	$0 \div 2 = \underline{\quad}$		34	$16 \times \underline{\quad} = 0$	
13	$0 \div 3 = \underline{\quad}$		35	$31 \times \underline{\quad} = 31$	
14	$0 \div 4 = \underline{\quad}$		36	$0 \div 18 = \underline{\quad}$	
15	$0 \div 7 = \underline{\quad}$		37	$45 \times \underline{\quad} = 0$	
16	$1 \times \underline{\quad} = 1$		38	$0 \div 52 = \underline{\quad}$	
17	$3 \div \underline{\quad} = 3$		39	$63 \times \underline{\quad} = 63$	
18	$4 \div \underline{\quad} = 4$		40	$\underline{\quad} \times 1 = 78$	
19	$5 \div \underline{\quad} = 5$		41	$0 \div 81 = \underline{\quad}$	
20	$7 \div \underline{\quad} = 7$		42	$\underline{\quad} \times 1 = 97$	
21	$\underline{\quad} \times 1 = 6$		43	$26 \times \underline{\quad} = 26$	
22	$4 \times \underline{\quad} = 0$		44	$42 \times \underline{\quad} = 0$	

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A

Correct _____

Multiply.

1	$2 \times 3 =$		23	$8 \times 40 =$	
2	$2 \times 30 =$		24	$80 \times 4 =$	
3	$20 \times 3 =$		25	$9 \times 6 =$	
4	$2 \times 2 =$		26	$90 \times 6 =$	
5	$2 \times 20 =$		27	$2 \times 5 =$	
6	$20 \times 2 =$		28	$2 \times 50 =$	
7	$4 \times 2 =$		29	$3 \times 90 =$	
8	$4 \times 20 =$		30	$40 \times 7 =$	
9	$40 \times 2 =$		31	$5 \times 40 =$	
10	$5 \times 3 =$		32	$6 \times 60 =$	
11	$50 \times 3 =$		33	$70 \times 6 =$	
12	$3 \times 50 =$		34	$8 \times 70 =$	
13	$4 \times 4 =$		35	$80 \times 6 =$	
14	$40 \times 4 =$		36	$9 \times 70 =$	
15	$4 \times 40 =$		37	$50 \times 6 =$	
16	$6 \times 3 =$		38	$8 \times 80 =$	
17	$6 \times 30 =$		39	$9 \times 80 =$	
18	$60 \times 3 =$		40	$60 \times 8 =$	
19	$7 \times 5 =$		41	$70 \times 7 =$	
20	$70 \times 5 =$		42	$5 \times 80 =$	
21	$7 \times 50 =$		43	$60 \times 9 =$	
22	$8 \times 4 =$		44	$9 \times 90 =$	

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B

Improvement _____ # Correct _____

Multiply.

1	$4 \times 2 =$		23	$9 \times 40 =$	
2	$4 \times 20 =$		24	$90 \times 4 =$	
3	$40 \times 2 =$		25	$8 \times 6 =$	
4	$3 \times 3 =$		26	$80 \times 6 =$	
5	$3 \times 30 =$		27	$5 \times 2 =$	
6	$30 \times 3 =$		28	$5 \times 20 =$	
7	$3 \times 2 =$		29	$3 \times 80 =$	
8	$3 \times 20 =$		30	$40 \times 8 =$	
9	$30 \times 2 =$		31	$4 \times 50 =$	
10	$5 \times 5 =$		32	$8 \times 80 =$	
11	$50 \times 5 =$		33	$90 \times 6 =$	
12	$5 \times 50 =$		34	$6 \times 70 =$	
13	$4 \times 3 =$		35	$60 \times 6 =$	
14	$40 \times 3 =$		36	$7 \times 70 =$	
15	$4 \times 30 =$		37	$60 \times 5 =$	
16	$7 \times 3 =$		38	$6 \times 80 =$	
17	$7 \times 30 =$		39	$7 \times 80 =$	
18	$70 \times 3 =$		40	$80 \times 6 =$	
19	$6 \times 4 =$		41	$90 \times 7 =$	
20	$60 \times 4 =$		42	$8 \times 50 =$	
21	$6 \times 40 =$		43	$80 \times 9 =$	
22	$9 \times 4 =$		44	$7 \times 90 =$	

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Lesson 21:

Solve two-step word problems involving multiplying single-digit factors and multiples of 10.

Date:

7/31/13

engage^{ny}

3.F.28