	A. $2 + 3 \times 7$	B. 14 − 3 × 4	C. $6 \times 2 + 1$
	D. 3 + 8 ÷ 4	E. 8 – 4 ÷ 2	F. 6 ÷ 3 − 1
	G. 4 – 2 + 1	H. $12 \div 4 \times 2$	I. 3 × 6 ÷ 2
Are	e You Smarte	r Than Your Ca	alculator?
			5
	I computed &	3-2 imes 4 on my calculator.	My answer is 0.
	That's the an	strange, I computed the san swer is 24.	ne thing, but my calculator said
Whic	h calculator is correc	1?	
Some wheti Jeror	e simple calculators o her your calculator us ne's.	to not "know" the correct ses the correct order by	t order of operations. Chec using it to solve a problem l
2.	For each of these p your answer using a	roblems, first find the an a calculator that follows t	swer. Then, if possible, che the order of operations.
	A. 10 - 2 × 3	B. 15 - 8 + 6 - 4	C. $4 + 3 \times 2$
	D. 4 + 9 - 3 × 2	E. 5 × 2 + 3	F. 3 + 5 × 2
	G. 5 + 2 × 3	H. $6 \div 3 \times 2$	I. $4 \times 4 - 4 \div 4$
	J. $4 + 4 \times 4 - 4$	K. 4 × 4 - 4 - 4	L. $4 \times 4 \div 4 - 4$
	M. $10 + 6 \times 8$	N. 10 - 24 ÷ 6	O. 8 × 7 - 6

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Questions 1-10 (SG pp. 254-256)
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- **I. A.** $2 + (3 \times 7) = 23$ **B.** 14 - $(3 \times 4) = 2$ **C.** $(6 \times 2) + 1 = 13$ **D.** $3 + (8 \div 4) = 5$ E. 8 $4 \div 2$ = 6 **F.** $(6 \div 3) - 1 = 1$ G. (4-2)+1=3**H.** $(12 \div 4) \times 2 = 6$ $(3 \times 6) \div 2 = 9$ I. (**B.** 9 **2. A.** 4 **C.** 10 **D.** 7 **E.** 13 **F.** 13 **H**. 4 **G**. 11 **I.** 15 **K.** 8 **L**. 0 **J.** 16 **N.** 6 **M.** 58 **O.** 50 **3. A.** 22 **B.** 42 **C.** 1 **D.** 6 **E.** 12 **F.** 3 **G.** 7 **H.** 13
- **4.** Explanations and examples will vary. Students could suggest solving the problem with paper and pencil first (e.g., $4 + 3 \times 2 1 = 9$) applying the order of operations and then using the calculator to see if it computes the same answer. An answer of 13 would be incorrect, and would not follow the order of operations.

Answer Key • Lesson 1: Order of Operations

5. A.* 91; $9 \times 5 \times 2 + 1 = 91$

B.* 0; $5 \times 2 - 9 - 1 = 0$

- **C.** Answers will vary. Possible answers:
 - $0 = 5 \times 2 9 1$ 1 = 9 - 5 - 2 - 1 $2 = 5 \times 2 - 9 + 1$ 3 = 9 - 5 - 2 + 1 $4 = (9 - 5) \times (2 - 1)$ 5 = 9 + 2 - 5 - 1 $6 = 9 - 5 \times 1 + 2$ 7 = 9 + 1 - 5 + 2 $8 = (9 - 5) \times 2 \times 1$
 - $9 = (9 1) \div 2 + 5$
- **D.** Answers will vary. For example, three number sentences that make 1 are: 1 = 9 - 5 - 2 - 1 and $1 = 5 \times 2 - 9 \times 1$ and $1 = 2 \times 5 \div 1 - 9$. Here are two number sentences that make 5: 5 = 9 + 2 - 5 - 1 and 5 = 9 - 1 + 2 - 5
- 6. Answers will vary.
- **7.** Answers will vary. Two examples are: $4 \times 3 - 2 \times 1$ and 4 + 3 + 2 + 1
- 8. Answers will vary. The numbers in the following $4 \times 3 \times 2$
- **9.** Answers v $5 \times 3 - 7$
- **10.** Answers v

Teacher Gu

Questions	A–K ((TG)
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Α.	17	В.	10
C.	7	D.	27
E.	8	F.	9
G.	60	Н.	0
I.	6	J.	36
Κ.	3	L.	9



sentence can be written in any order:	
2×1	
will vary. Two possible solutions are:	
$7 \times 1 \text{ and } 7 + 5 - 3 - 1.$	
vill vary.	
ide	
((TG)	
B. 10	
D. 27	
F. 9	
H. 0	iing Compari
J. 36	Hunt Publish
	(endall



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	Name	Date
	Order of Op	perations Quiz
	Solve the following problems using t	he correct order of operations:
	A. $5 + 4 \times 3 =$	B. $6 + 8 \div 2 =$
	C . 5 × 2 − 6 ÷ 2 =	D. (5 + 4) × 3 =
	E. 3 × 3 - 3 ÷ 3 =	F. 3 + 3 × 3 - 3 =
	G. 2 × (5 + 5) × 3 =	$H. 8 \times 3 - 8 \times 3 =$
	I. 2 + 2 × 2 =	J. $18 \div 3 \times 6 =$
t Publishing Company	K. 5 – 3 + 1 =	L 8-4÷2+3=
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9	Assessment Master	TG • Grade 4 • Unit 7 • Lesson 1

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*Answers and/or discussion are included in the lesson.