Name	[Date	Class
LESSON Practice	Α		
1-4 Order of O	perations		
Name the operation y	ou should perform first.		
1. 5 + 6 • 2	2. 18 ÷ 3 – 1	3. 4	4 + (7 – 1)
4. 3 ² + 6	5. (15 + 38) • 6	6. 5	5•10 - 12

Match each expression to its value.

Expression	Value	
7. 7 + 8 – 2	A. 9	
 8. 9 + (12 - 10)	B. 40	
9. (20 − 15) • 2	C. 12	
10. 10 ÷ 5 + 7	D. 0	
 11. 6 + 2 • 3	E. 16	
12. (2 • 4) + 8	F. 11	
13. 14 ÷ 2 • 0	G. 13	
 14. (5 – 1) • 10	H. 10	

- 15. Sam bought two CDs for \$13 each. Sales tax for both CDs was\$3. Write an expression to show how much Sam paid in all.
- **16.** Alicia made 24 chocolate chip cookies and 36 sugar cookies. Then she divided all the cookies into 10 bags to sell at the bake sale. Write an expression to show how many cookies she put into each bag.

LESSON Problem Solving		LESSON Puzzles, Twisters & Teasers
1-3 Exponents		1-3 Answer This!
1. The Sun is the center of our solar	2. Patty Berg has won 4 ² major	What are the only land mammals that cannot jump?
system. The Sun is the star closest to our planet. The surface temperature	women's titles in golf. Write 4 ²	To find the answer:
of the Sun is close to 10,000°F. Write		1. Use a ruler to match each number and its value.
10 ⁴	16	2. Write the letter under the matching number in the decoder.
3. William has 3 ³ baseball cards and	4. Michelle recorded the number of	
4 ³ football cards. Write the number	miles she ran each day last year.	
that William has.	represent the total number of miles:	
	3 • 3 • 3 • 3 • 3 • 3 • 3 • 3. Write this	
27 baseball cards and	many miles did Michelle run last year?	93 243
64 football cards	3 ⁷ ; 2,187 miles	
5. In Tyrone's science class he is	6. Tanisha's soccer team has a phone	
studying cells. Cell A divides every 30 minutes. If Tyrone starts with two	tree in case a soccer game is	
cells, how many cells will he have in	calls 2 families. Then each family	3 ⁵ N 1,296
3 hours?	calls 2 other families. How many families will be notified during the	
	4 th round of calls?	7 ³ 1,000
128 cells	<u>16 families</u>	
7. The Akashi-Kaiko Bridge is the	8. The Strahov Stadium is the largest	4 729
world. It is located in Kobe-Naruto,	located in Prague, Czech Republic.	
Japan and was completed in 1998. It	Its capacity is about 12 ⁵ . Write the	1 510
approximate length of the Akashi-	standard form.	
Kaiko Bridge in standard form.		
6,561 feet	248,832	2 ⁶ 8 64
		DECODER
		3 4 3 1 2 5 6 7 8
		<u>E L E P H A N T S</u>
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Exploration Recording Sheet		
LESSON Exploration Recordin	g Sheet	LESSON Practice A
LESSON Exploration Recordin	g Sheet	Practice A Image: Contract of Contractions
Exploration Recordin Exploration Recordin Calculators are programmed to perform op order, Each keystroke sequence below resi	g Sheet	LESSON Practice A I-4 Order of Operations Name the operation you should perform first.
Exploration Recordin E4 Order of Operations Calculators are programmed to perform op order. Each keystroke sequence below resu	g Sheet erations in a certain ults in 17.	LESSONPractice A1-4Order of OperationsName the operation you should perform first.1. $5 + 6 \cdot 2$ 2. $18 \div 3 - 1$ 3. $4 + (7 - 1)$
Exploration Recordin E3800 Exploration Recordin E41 Order of Operations Calculators are programmed to perform op order. Each keystroke sequence below rest 3 5 ENTER + 2 ENTER	g Sheet erations in a certain ults in 17. 2 + 3 × 5 ENTER	LESSON Practice A 1-4 Order of Operations Name the operation you should perform first. 1. $5 + 6 \cdot 2$ 2. $18 \div 3 - 1$ 3. $4 + (7 - 1)$ multiply divide
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Exploration Recordin Exploration Recording Calculators are programmed to perform op order. Each keystroke sequence below rest 3×5 ENTER + 2 ENTER For each keystroke sequence, determine operations the calculator follows. 1. (2 + 3) × 5 ENTER 2. 2 \land 3 - 1 × 4 ENTER 3. 2 \land (3 - 1) × 4 Write the keystroke sequence for each e 4. 5 - 2 ² 5 - 2 2 5. (2 - 3) ³ + 2 (2 - 3) \land 3 + 2 Think and Discuss 6. Explain why there needs to be a rule to operations.	g Sheet erations in a certain ults in 17. $2 + 3 \times 5$ ENTER $2 + 3 \times 5$ ENTER $2 + 3 = 5, 5 \cdot 5 = 25$ $2^3 = 8, 1 \cdot 4 = 4, 8 - 4 = 4$ 4 ENTER $3 - 1 = 2, 2^2 = 4, 4 \cdot 4 = 16$ expression.	Practice AIf a Order of OperationsName the operation you should perform first. $1.5 + 6 \cdot 2$ $2.18 \div 3 - 1$ $3.4 + (7 - 1)$ multiplydividesubtract $4.3^2 + 6$ $5.(15 + 38) \cdot 6$ $6.5 \cdot 10 - 12$ exponentaddmultiplyMatch each expression to its value.ExpressionValue G $7.7 + 8 - 2$ $A.9$ F $8.9 + (12 - 10)$ $B.40$ H $9.(20 - 15) \cdot 2$ $C.12$ A $10.10 \div 5 + 7$ $D.0$ C $11.6 + 2 \cdot 3$ $E.16$ E $12.(2 \cdot 4) + 8$ $F.11$ D $13.14 \div 2 \cdot 0$ $G.13$ B $14.(5 - 1) \cdot 10$ $H.10$ 15. Sam bought two CDs for \$13 each. Sales tax for both CDs was \$3. Write an expression to show how much Sam paid in all.(2 - 13) + 316. Alicia made 24 chocolate chip cookies and 36 sugar cookies. Then she divided all the cookies into 10 bags to sell at the bake sale. Write an expression to show how many cookies she put into each bag.
Exploration Recordin ESSON Exploration Recording Calculators are programmed to perform op order. Each keystroke sequence below rest 3×5 ENTER + 2 ENTER 1×5 ENTER + 2 ENTER For each keystroke sequence, determine operations the calculator follows. $1 \times 2 + 3 \times 5$ ENTER $2 \times 2 \wedge 3 - 1 \times 4$ ENTER $3 \times 2 \wedge (3 - 1) \times 4$ Write the keystroke sequence for each each $4 \cdot 5 - 2^2$ $5 - 2 \wedge 2$ $5 \cdot (2 - 3)^3 + 2$ $(2 - 3) \wedge 3 + 2$ Think and Discuss 6 Explain why there needs to be a rule for operations. There needs to be a rule for the or	g Sheet erations in a certain uits in 17. $2 + 3 \times 5$ ENTER $2 + 3 \times 5$ ENTER $2 + 3 \times 5$ ENTER $2 + 3 = 5, 5 \cdot 5 = 25$ $2^3 = 8, 1 \cdot 4 = 4, 8 - 4 = 4$ 4 ENTER $3 - 1 = 2, 2^2 = 4, 4 \cdot 4 = 16$ expression.	Practice AIf a Order of OperationsName the operation you should perform first. $1.5 + 6 \cdot 2$ $2.18 + 3 - 1$ $3.4 + (7 - 1)$ multiplydividesubtract $4.3^2 + 6$ $5.(15 + 38) \cdot 6$ $6.5 \cdot 10 - 12$ exponentaddmultiplyMatch each expression to its value.ExpressionValue G $7.7 + 8 - 2$ $A.9$ F $8.9 + (12 - 10)$ $B.40$ H $9.(20 - 15) \cdot 2$ $C.12$ A $10.10 + 5 + 7$ $D.0$ C $11.6 + 2 \cdot 3$ $E.16$ E $12.(2 \cdot 4) + 8$ $F.11$ D $13.14 + 2 \cdot 0$ $G.13$ B $14.(5 - 1) \cdot 10$ $H.10$ 15. Sam bought two CDs for \$13 each. Sales tax for both CDs was \$3. Write an expression to show how much Sam paid in all. $(2 \cdot 13) + 3$ 16. Alicia made 24 chocolate chip cookies and 36 sugar cookies. Then she divided all the cookies into 10 bags to sell at the bake sale. Write an expression to show how many cookies she put into each bag. $(24 + 36) \div 10$ 10
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