# **153** Order of Operations

When you write an expression to solve a problem, keep in mind the order of operations.

Tickets for a show cost \$3 for children, \$9 for adults, and \$5 for senior citizens. Two groups of people are buying tickets. There are 6 children, 4 adults, and 3 senior citizens in each group. Write and solve an expression to find the total ticket cost for both groups.

## **Understand the Problem**

- 1. What is the problem asking you to find?
- 2. Underline the information in the problem that you will use to write an expression for the total.

## Make a Plan

- 3. How can you find the cost for 6 children?
- 4. If you know the cost for one group, how can you find the cost for both groups?

#### Solve

- **5.** Write an expression for the cost in dollars for one group. Why don't you need parentheses?
- 6. Write an expression for the cost in dollars for both groups.
- 7. What is the total cost for the two groups? \_\_\_\_\_

### Look Back

**8.** Find the total cost another way. Find the sum of the cost for all 12 children, all 8 adults, and all 6 senior citizens.

LESSON Ready to Go On? Problem Solving Intervention				<b>Ready to Go On? Skills Intervention</b>		
When you write an expression to solve a problem, keep in mind the order of operations				You use mental math when you solve a math problem in your		
when you write an expression to solve a problem, keep in mind the order of operations. Tickets for a show cost \$3 for children, \$9 for adults, and \$5 for senior citizens. Two groups of epoch are buying tickets. There are 6 children 4 doubt and 2 copier citizens.				head. Some mental math when you solve a math problem in your head. Some mental math strategies use number properties that you already know.		
groups or people are buying lickets. Inere are 6 Children, 4 adults, and 3 senior citizens in each group. Write and solve an expression to find the total ticket cost for both groups.				The <b>Commutative Property</b> (ordering) states that you can add or multiply numbers in any order. The <b>Associative</b> Distributive Property		
Understand the Problem				Property (grouping) states that w	vhile you are only adding or	only
1. What is the problem asking you to find?				multiplying, you can group any of	f the numbers together.	
the total cost for tickets for the two groups				Using Properties to Add Whole	Numbers	
<ol> <li>Underline the information in the problem that you will use to write an expression for the total. Check students' work.</li> </ol>				Find the sum. 13 + 6 + 17 + 54		
Make a Plan				13 + 6 + 17 + 54	Which numbers can you g	roup together to find sums
<ol> <li>How can you find the cost for 6 children? <u>Multiply 6 • \$3.</u></li> <li>If you know the cost for one group, how can you find the cost for both groups?</li> </ol>				13 + <u>17</u> + 6 + <u>54</u>	Rewrite the problem using the Commutative Property	
Multiply the cost for one aroun by 2.				to change the order.		
Solve			13 + 17 + 16 + 54	Use the Associative Property to make groups of compatible numbers.		
5. Write an expression for the cost in dollars for one group. Why don't you need parentheses?				The sum is <u>90</u> .	Use mental math to add.	
$6 \bullet 3 + 4 \bullet 9 + 3 \bullet 5$ ; using the order of operations				The <b>Distributive Property</b> states that when you multiply a number times a sum, you can find the sum first and then multiply, or multiply by each number in the sum and then add. When multiplying two numbers, you can "break apart" one of the numbers into a sum. Then, use the Distributive Property to find the answer mentally. <b>Using the Distributive Property to Multiply</b> Use the Distributive Property to find the product. 8 × 35		
you multiply before adding.						
6. Write an expression for the cost in dollars for both groups.						
$\frac{2(6 \cdot 3 + 4 \cdot 9 + 3 \cdot 5)}{(6 \cdot 3 + 4 \cdot 9 + 3 \cdot 5)}$						
7. What is the total cost for the two groups?						
Look Back				$8 \times (30 + 5)$	Break apart 35.	
<ol> <li>Find the total cost another w 8 adults and all 6 senior citiz</li> </ol>	vay. Find the sum of the cost t	for all 12 childre	en, all	$(8 \times 30) + (8 \times 5)$	Which property can you us	se to multiply each number
	120			, , , , ,	in the sum? the Dis	stributive Property
$12 \cdot 3 + 0 \cdot 9 + 0 \cdot 5 =$	130			<u>240 + 40</u>	Use mental math to multip	bly.
				The product is <b>280</b> .	Use mental math to add.	
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LESSON Ready to Go On? Skills Intervention						
<b>Ready to Go O</b>	n? Skills Intervent	tion		LESSON Ready to Go O	n? Problem Solvin	ng Intervention
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<b>Ready to Go On</b> <b>1-5</b> <i>Choosing a Metho</i> When solving a problem you need computation: mental math, penci	n? Skills Intervent of of Computation ed to choose a method of il and paper, or a calculator.	tion		<b>Ready to Go On</b> <b>1-5</b> <i>Choosing a Metho</i> Some computations that look har A small arena has 484 sections	n? Problem Solvin of of Computation rd can still be done with mer each with 25 seats. How ma	ng Intervention
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<b>Ready to Go Or</b> <b>1450</b> <i>Choosing a Methol</i> When solving a problem you nee computation: mental math, pencil <b>Agricultural Application</b> A. Adrian is planning her garden several different types of flow does Adrian want in her garde Will you add the numbers in th you use paper and pencil? Ex <b>I will use paper and pencil but</b> <b>difficult to keep track of all of</b> Add. 18 20 12 8 36 + 50 <u>144</u> Adrian wants to pla B. How many more petunias that <u>36</u> - <u>18</u> petunias snapdragons (36 + <u>2</u> ) - (18 + <u>2</u> )	<b>n? Skills Intervent bd of Computation</b> ad to choose a method of il and paper, or a calculator. <b>b.</b> She wants to plant ers. How many plants en? the table mentally or will plain. <b>ecause it is f the numbers.</b> <b>ant <u>144</u> plants in her garde n snapdragons will Adrian pla Setup the subtraction probler Which number will you add to </b>	Adrian's O Plant Type Snapdragon Cornflower Cosmos Dahlia Petunia Pansy Pansy en. ant? m. b 18 and 36 to	Garden Number 18 20 12 8 36 50 50	LESSON       Ready to Go Ou         153       Choosing a Metho         Some computations that look har       A small arena has 484 sections, .         Understand the Problem       1. Do you need an exact answee         2. What computation can you do         Make a Plan         3. How many sections of 25 sea         4. How can you use that idea to         Possible answer: Find how         there are and multiply that         Solve         5. Use mental math. How many         484 sections? (In other words)         6. Fill in the blank to make the sea         7. How many seats are in the and         Look Back         8. Your answer for 484 • 25 sho         Show that it is.	<b>n? Problem Solvin</b> <b>d of Computation</b> d can still be done with meree ach with 25 seats. How man ar?	ng Intervention htal math. any seats are in the arena? yes Multiply 484 • 25 00 seats? 4 eat sections 121 121 hundreds 12,100 ht 500 • 30.
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<b>Ready to Go On</b> <b>155</b> <i>Choosing a Methol</i> When solving a problem you nee computation: mental math, pencil <b>Agricultural Application</b> <b>A.</b> Adrian is planning her garden several different types of flow does Adrian want in her garde Will you use paper and pencil? Ex <b>I will use paper and pencil but</b> <b>difficult to keep track of all of</b> Add. <b>18</b> 20 12 8 36 + 50 <b>144</b> Adrian wants to pla <b>B.</b> How many more petunias that <b>36</b> - <b>18</b> petunias snapdragons (36 + 2) - (18 + 2) <b>38</b> - <b>20</b> = <b>18</b> Adrian will plant <b>18</b> more pet <b>144</b> Adrian wore petunias that <b>36</b> - <b>18</b> petunias snapdragons (36 + 2) - (18 + 2) <b>38</b> - <b>20</b> = <b>18</b> Adrian will plant <b>18</b> more pet <b>C.</b> Adrian is going to plant 36 plant it take her to plant her garden <b>144</b> $\div$ <b>36</b> total plants plants per day Are these numbers compatible? Will it take you awhile to find the	<b>n? Skills Intervent bd of Computation</b> ad to choose a method of il and paper, or a calculator. <b>a.</b> She wants to plant ers. How many plants en? the table mentally or will plain. <b>ecause it is f the numbers.</b> <b>a.</b> If the numbers. <b>a.</b> Stup the subtraction probler Which number will you add to mental math? Use mental math to subtract. tunias than snapdragons. ants in one day. How many dat ?? Write out the division problen <b>n n n n n n n n n n</b>	Adrian's C Plant Type Snapdragon Cornflower Cosmos Dahlia Petunia Pansy en. ant? m. o 18 and 36 to 1 ays will n. per? <u>YES</u>	Garden 18 20 12 8 36 50 USE	<ul> <li>Ready to Go On</li> <li>Choosing a Metho</li> <li>Some computations that look har</li> <li>A small arena has 484 sections,</li> <li>Understand the Problem</li> <li>Do you need an exact answee</li> <li>What computation can you do</li> <li>Make a Plan</li> <li>How many sections of 25 sea</li> <li>How can you use that idea to</li> <li>Possible answer: Find how</li> <li>there are and multiply that</li> <li>Solve</li> <li>Use mental math. How many</li> <li>484 sections? (In other words</li> <li>Fill in the blank to make the sea</li> <li>How many seats are in the at</li> <li>Look Back</li> <li>Your answer for 484 • 25 shos</li> <li>Show that it is.</li> <li>500 • 20 = 10,000 and 50</li> <li>The answer 12,100 is between the search of the search o</li></ul>	n? Problem Solvin         Id of Computation         Id of Computation         Id can still be done with mereach with 25 seats. How maneach         each with 25 seats. How maneach         o to solve the problem?         is take does it take to provide 10 occmpute 484 • 25?         w many sets of four 25-set         w many sets of four 25-set         it by 100.         r sets of 4 sections are in         s, how many 4's in 484?)         statement true.       484 • 25 =         rena?       1         build be between 500 • 20 and         D0 • 30 = 15,000.         ween 10,000 and 15,000	Intervention         ntal math.         any seats are in the arena?         yes         Multiply 484 • 25         00 seats?         4         eat sections         121
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<b>Ready to Go On</b> <b>1-5</b> <i>Choosing a Methol</i> When solving a problem you nee computation: mental math, pencil <b>Agricultural Application</b> <b>A</b> . Adrian is planning her garden several different types of flow does Adrian want in her garde Will you use paper and pencil? Ex <b>I will use paper and pencil</b> Ex <b>I will use paper and pencil</b> but <b>difficult to keep track of all of</b> Add. 18 20 12 8 36 + 50 144 Adrian wants to plan <b>B</b> . How many more petunias that 36 - 18 petunias snapdragons (36 + 2) - (18 + 2) <b>38</b> - 20 = 18 Adrian will plant 18 Adrian will plant 26 plant it take her to plant her garden 144 $\div$ 36 total plants plants per day Are these numbers compatible? Will it take Adrian 4 days to	<b>AP:</b> Skills Intervention         ad of Computation         ad to choose a method of il and paper, or a calculator.         a. She wants to plant ers. How many plants an?         be table mentally or will yolain.         ecause it is filte numbers.         filte numbers.         ant144 plants in her garded in snapdragons will Adrian plase stup the subtraction probler         Which number will you add to mental math?         Use mental math to subtract.         tunias than snapdragons.         ants in one day. How many day?         ??         Write out the division problem	Adrian's C Plant Type Snapdragon Cornflower Cosmos Dahlia Petunia Pansy en. ant? m. to 18 and 36 to 1 ays will n. per? <u>Yes</u>	Garden Number 18 20 12 8 36 50 USE	<ul> <li>Ready to Go On</li> <li>Choosing a Metho</li> <li>Some computations that look har</li> <li>A small arena has 484 sections, .</li> <li>Understand the Problem</li> <li>1. Do you need an exact answee</li> <li>2. What computation can you do</li> <li>Make a Plan</li> <li>3. How many sections of 25 sea</li> <li>4. How can you use that idea to</li> <li>Possible answer: Find how</li> <li>there are and multiply that</li> <li>Solve</li> <li>5. Use mental math. How many</li> <li>484 sections? (In other wordst</li> <li>6. Fill in the blank to make the s</li> <li>7. How many seats are in the at</li> <li>Look Back</li> <li>8. Your answer for 484 • 25 sho</li> <li>Show that it is.</li> <li>500 • 20 = 10,000 and 50</li> <li>The answer 12,100 is betw</li> </ul>	n? Problem Solvin         Id of Computation         Id of Computation         Id can still be done with mereach with 25 seats. How many         each with 25 seats. How many         o to solve the problem?         is take does it take to provide 10         is compute 484 • 25?         w many sets of four 25-sered         it by 100.         r sets of 4 sections are in         s, how many 4's in 484?)         statement true.       484 • 25 =         rena?       1         build be between 500 • 20 and         D0 • 30 = 15,000.         ween 10,000 and 15,000	Intervention         ntal math.         any seats are in the arena?         yes         Multiply 484 • 25         00 seats?       4         eat sections         121