



5) 379 20	75R4 5) 379 30 150 229 20 100 129 20 100 29 5 25 25 4 75	$ \begin{array}{r} 7584 \\ 5 \overline{\smash{\big)}} 379 \\ 50 \\ \frac{250}{129} \\ 20 \\ \underline{100} \\ 25 \\ 4 \\ 75 \\ \end{array} $	75R4 5 379 -350 29 5 25 4
 Solve the follo about what yo small. Check 	wing problems us ou observed in Que to be sure your an	ing the partial quotier estion 3 to help keep swers are reasonable	ts method. Think the number of steps
A. 562 ÷ 5	B. 667 ÷ 5	C. 274 ÷ 2	D. 2)527
E. 7)413	F. 792 ÷ 7	G. 4)341	H. 987 ÷ 6
I. 3)684	J. 459 ÷ 8	K. 2641 ÷ 9	L. 3)8128
 Check-In: 6. Sue has 204 linto bunches Will any lollipo 	Questions 6- lollipops. She is go of 8. How many bu ops be left over? H	-9 ing to divide them inches will she have? elp Sue think through	8)204 10 80_
A First tru:	bunchos (of eight	124 10
B. You have	- 80		
	lollipops.		44 5 - 40
C. What does	the 80 mean?	on of eight	4 25
D. Second tr	the 44 mean?	es or eignt.	
E. What does	bunches	of eight.	
E. What does F. Next try: _		- anne daes she have?	
E. What does F. Next try: _ G. How many	/ bunches of 8 Iollip	Jop3 4003 5nd nave :	
E. What does F. Next try: _ G. How many H. How many	/ bunches of 8 lollip / lollipops are left o	ver?	

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Questions 1-9 (SG pp. 549-551)

Methods will vary.

- **I. A.** 112 R5; $8 \times 112 = 896$; 896 + 5 = 901
 - **B.** $617 \div 8 = 77 \text{ R1}; 8 \times 77 = 616;$ 616 + 1 = 617
 - **C.** 1190 R2; 4 × 1190 = 4760; 4760 + 2 = 4762
- **2. A.** $856 \div 4 = 214$
 - **B.** $256 \div 7 = 36 \text{ R4}$
 - **C.** $5478 \div 9 = 608 \text{ R6}$
 - D. Responses will vary.
- **3.*** See Part 3 in the lesson.
- **4. A.** $562 \div 5 = 112 \text{ R2}$
 - **B.** $667 \div 5 = 133 \text{ R2}$
 - **C.** $274 \div 2 = 137$
 - **D.** $527 \div 2 = 263 \text{ R1}$
 - **E.** 413 ÷ 7 = 59
 - **F.** $792 \div 7 = 113 \text{ R1}$
 - **G.** $341 \div 4 = 85 \text{ R1}$
 - **H.** $987 \div 6 = 164 \text{ R3}$
 - **I.** $684 \div 3 = 228$
 - **J.** $459 \div 8 = 57 \text{ R3}$
 - **K.** $2641 \div 9 = 293 \text{ R4}$
 - **L.** $8128 \div 3 = 2709 \text{ R1}$
- **5.** 4H: 164 × 6 = 984, 984 + 3 = 987; 4L: 2709 × 3 = 8127, 8127 + 1 = 8128
- 6. A. 10 bunches of eight
 - B. 8, 80 lollipops
 - **C.** 80 is the number of lollipops in 10 bunches of eight
 - D. 10 bunches of eight
 - **E.** 44 is the number of lollipops left over after 20 bunches have been made.
 - **F.** 5 bunches of eight
 - G. 25 bunches
 - **H.** 4 lollipops left over
- **7.** $363 \div 3 = 121$ toys

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

Answer Key • Lesson 6: Paper-and-Pencil Division

- **8. A.** She will need 47 pages.
 - **B.** Jamie's answer is incorrect. She did not include the 2 leftover pictures.
- **9. A.** Blanca and Nila both used the partial quotients method, but they used different initial partial quotients.
 - **B.** 20
 - **C.** 50
 - **D.** Answers will vary. Students may say they would start with 70, because $5 \times 70 = 350$, which is closer to 375.
 - **E.** Nila used fewer steps by starting with a partial quotient closer to the actual quotient.
 - **F.** Answers will vary. Students may start with a partial quotient of 60 or 70 to reduce steps.

Homework (SG pp. 551–552)

Questions 1–23

- I. 384 cookies
- **2.** Estimates will vary. Possible response: 30 pies in each oven. Round 173 to 180. $180 \div 6 = 30$ pies.
- **3.** A good estimate would be 500 loaves $\div 4$ kinds = 125 loaves of each kind. $400 \div 4 =$ 100 and 100 $\div 4 = 25$, so 500 $\div 4 = 125$.

	$\begin{array}{rrrr} 278 \ {\rm School Fair pictures. Six pictures fit} & 6 & 1 \\ \hline & 9 \ {\rm con each album page.} & 6 & -240 \\ {\rm A. How many pages will she need?} & 38 \ {\rm 5} \\ \hline & {\rm B. Look at Jamie's solution to the right.} \\ & {\rm Do you agree with her answer? Why or} & -\frac{6}{2} & \frac{1}{46} \\ \hline & {\rm why not?} & -\frac{6}{2} & \frac{1}{46} \\ \hline \end{array}$						
9.	Blanca and Nila organized 375 name tags into 5 groups on the welcome table. The girls used division to find out how many name tags to put in each group.						
	Blanca solved the problem Nila solved the problem this way: this way:						
	$\begin{array}{c ccccc} & & & & & & & & & \\ \hline 5)375 & 20 & & & 5)375 & 50 \\ \hline -100 & & & & & & & & \\ \hline 275 & 40 & & & & & & & \\ \hline -\frac{200}{75} & 10 & & & & & & & \\ \hline -\frac{200}{75} & 10 & & & & & & & \\ \hline -50 & & & & & & & & & \\ \hline -50 & & & & & & & & & \\ \hline \end{array}$						
	$\begin{array}{c} -\frac{25}{25} \\ -\frac{25}{75} \\ -\frac{25}{75} \end{array}$						
	A. How are Blanca's and Nila's solutions alike? How are they different?						
	 a. How are Blanca's and Nila's solutions alike? How are they different? B. What is Blanca's first partial quotient? C. What is Nila's first partial quotient? 						
	 a. How are Blanca's and Nila's solutions alike? How are they different? b. What is Blanca's first partial quotient? c. Which partial quotient would you start with? Why? c. Which partial quotient would you start with? 						
	A. How are Blanca's and Nila's solutions alike? How are they different? B. What is Blanca's first partial quotient? C. What is Nila's first partial quotient? D. Which partial quotient would you start with? Why? E. Who used fewer steps? How did she do that? F. Can you solve this problem using fewer steps? If so, how?						
	A. How are Blanca's and Nila's solutions alike? How are they different? Muta is Blanca's first partial quotient? What is Nila's first partial quotient? What is Nila's first partial quotient? Who used fewer steps? How did she do that? C. Can you solve this problem using fewer steps? If so, how? More work						
1.							
1. 2.							
1. 2. 3.	A. How are Blanca's and Nila's solutions alike? How are they different? What is Blanca's first partial quotient? What is Blanca's first partial quotient? What is Blanca's first partial quotient? What is Nila's first partial quotient? Who used fewer steps? How did she do that? F. Can you solve this problem using fewer steps? If so, how? Who used fewer steps? How did she do that? F. Can you solve this problem using fewer steps? If so, how? Who used fewer steps? How did she do that? F. Can you solve this problem using fewer steps? If so, how? Who used fewer steps? How did she do that? F. Can you solve this problem using fewer steps? If so, how? Who used fewer steps? How did she do that? The Good-For-You Bakery has 6 ovens. If they bake 73 pies every day an bake about the same number of pies in each oven, estimate about how many pies are baked in each oven. Show or tell how you know. The bakery makes 4 different kinds of bread: whole wheat, rye, oatmeal, and cinnamon. They bake a total of 509 loaves of bread a day. If they bake about the same number of each type, estimate about how many loaves of each type dake.						

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4.	4)586	5.	3)904		6. 819 ÷	7			
7.	128 ÷ 6	8.	9)949		9. 249 ÷	5			
10.	A. Pick one	of Quest	ons 4–9 an	d check the	answer us	sing multiplication.			
	B. Pick one of Questions 4–9 and show how to use estimation to show that your answer is reasonable.								
	C. Pick one of Questions 4–9 and write a story problem to match.								
11.	For a fund-raiser, the members of the Wilderness Club baked 789 chocolate chip cookies.								
	A. If they sell them in packages of 5, how many packages can they make?B. The Wilderness Club sold 102 packages. How many cookies were left?								
12.	There are about 1700 grass plants in 2 square feet of a healthy lawn. About how many plants are in 1 square foot?								
13.	There are 8 single-family homes on Elm Street in Mathville. The families who live there spend a total of about \$1040 a year on grass care. If all the families spend about the same amount, about how much does each family spend?								
14.	In 2003, the same 8 families on Elm Street spent a total of about \$536 on flower gardens. If all the families each spent about the same amount, about how much did each family spend that year?								
15.	Five grass plants will produce about 1875 miles of roots in their lifetimes. About how many miles of roots will one plant produce?								
16.	A store sells tulip bulbs. The bulbs come in packages of 8. If they sold 216 bulbs, how many packages did they sell?								
17.	422 ÷ 8		18. 4)601	_	19.	6)272			
20.	9)6452		21. 1708 -	÷ 6	22.	588 ÷ 7			
23.	Show or tell how you know your answer to Question 21 is reasonable.								
lay t ards	he Division Dig are in the Stu	gits Garr dent Act	e with a far ivity Book.	nily member	or classn	nate. Directions and			

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- **4.** 146 R2
- **5.** 301 R1
- **6.** 117
- **7.** 21 R2
- **8.** 105 R4
- **9.** 49 R4
- **10. A.** Responses will vary. For Q#9, $49 \times 5 + 4 = 249$
 - **B.** Responses will vary. One possible strategy for Question 4 follows: 586 is a little less than 600. 600 ÷ 4 is 150, so the answer will be a little less than 150.
 - **C.** Stories will vary. One possible story for *Question 4* follows: There are 586 girls in the school. Each girl belongs to one of four clubs. There are almost the same number of girls in each club. How many girls are in each club? Two clubs will have one more girl than the others.
- II. A. 157 packages with 4 cookies left over
 - **B.** 279 cookies; $102 \times 5 = 510$ cookies; 789 510 = 279 cookies.
- **12.** Estimates will vary. Between 800 and 900 or 850 plants. $1600 \div 2 = 800$ and $1800 \div 2 = 900$
- 13. Estimates will vary. Between \$100 and \$150; about \$125.00. \$800 ÷ 8 = \$100 and \$1200 ÷ 8 = \$150.
- 14. Estimates will vary. Between \$60 and \$70; about \$65.00. $8 \times $60 = 480$ and $8 \times $70 = 560
- 15. Estimates will vary. Between 300 and 400; about 350 miles. $1500 \div 5 = 300$ and $2000 \div 5 = 400$
- **16.** $216 \div 8 = 27$ packages
- **17.** $422 \div 8 = 52 \text{ R6}$
- **18.** $601 \div 4 = 150 \text{ R1}$
- **19.** $272 \div 6 = 45 \text{ R}2$
- **20.** $6452 \div 9 = 716 \text{ R8}$
- **21.** $1708 \div 6 = 284 \text{ R4}$
- **22.** 588 ÷ 7 = 84
- **23.** Round 284 to 300. $6 \times 300 = 1800$, 1708 is a little less than 1800 so 284 is reasonable.