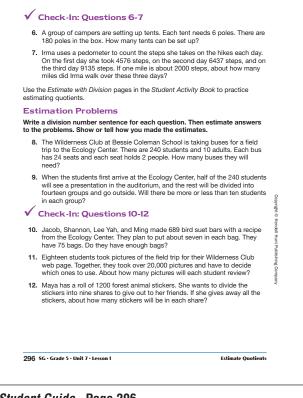


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*Answers and/or discussion are included in the lesson.

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Estimate Quotients (SG pp. 295–296) Questions 1–12

- **I. A.** 3; 30; 300; 3000; 30,000
 - **B.** 3; 30; 300; 3000; 30,000
 - **C.** 4; 40; 400; 4000; 40,000
 - **D.** 8; 80; 800; 8000; 80,000
- **2. A.** 2; 20; 2; 200; 20 **B.** 9; 90; 9; 900; 90
 - **C.** 6; 60; 6; 600; 60 **D.** 90; 90; 9; 900; 90
- **3.*** Answers will vary. See Figures 3 and 4 in the lesson.
- **4.** A. Yes, they can all go boating.
 - **B.** No. Two of the boats will have 3 campers.
- **5. A.** 20 pages
 - **B.** 5 days
- 6. 30 tents
- 7. About 10 miles
- 8. 240 + 10 = 250 people going on the trip. $250 \div 48$ people on each bus is about $250 \div 50 = 5$. The Wilderness Club will need about five buses.
- 9. Less than 10. Possible response: 120 students will be in the auditorium and 120 in groups. The division number sentence is 120 ÷ 14. 120 ÷ 10 = 12, so 120 ÷ 14 is less than 10. There are less than 10 students in each group.
- 10. They do not have enough bags. Possible response: The division number sentence is $689 \div 7.7 \times 100 = 700$. They need about 100 bags, which is more than the 75 bags they have.
- 11. More than 1000. Possible response: The division number sentence is $20,000 \div 18$. $20 \times 1000 = 20,000$. Since there are less than 20 students, they will have to view more than 1000 pictures each.
- **12.** Between 130 and 140 stickers. The division number sentence is $1200 \div 9$. These are the multiplication sentences I used to find the range.

 $9 \times 100 = 900$ $9 \times 110 = 990$ $9 \times 120 = 1080$ $9 \times 130 = 1170$ $9 \times 140 = 1260$

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Answer Key • Lesson 1: Estimate Quotients

Homework (SG p. 297) Questions 1–7

- **I. A.** 4; 40; 400; 4000
 - **B.** 20; 20; 200; 200
 - **C.** 3; 30; 300; 3000
 - **D.** 8; 80; 800; 8000
- **2. A.** 1; 1; 10; 100; 1000
 - **B.** 4; 4; 40; 400; 400
 - **C.** 7; 7; 70; 700; 70
 - **D.** 6; 6; 60; 600; 60
- Strategies will vary. Possible response: I know 28 ÷ 7 = 4. I used that fact to answer the others. Each time I thought of a multiplication problem like 70 × ? = 280. I know 4 × 7 = 28 and so 4 × 70 = 280.
- **4.** 420 ÷ 7; about 60 kabobs
- **5.** $200 \div 9$; between 20 and 30 rocks in each row
- **6.** $6400 \div 3$; about 2100 dollars can be spent on each activity.
- **7.** A. $80 \div 15$; about 6 trail rides
 - **B.** Jessie will go horse-back riding tomorrow since there are only 5 trail rides today.

	Α.	8 ÷ 2 80 ÷ 2 800 ÷ 2 8000 ÷ 2	в.	20 ÷ 1 200 ÷ 10 2000 ÷ 10 20,000 ÷ 100	c.	27 ÷ 9 270 ÷ 9 2700 ÷ 9 27,000 ÷ 9	D.	48 ÷ 6 480 ÷ 6 4800 ÷ 6 48,000 ÷ 6	
2.	Α.	$\begin{array}{l} 5 \div 50 \\ 50 \div 50 \\ 500 \div 50 \\ 5000 \div 50 \\ 50,000 \div 50 \\ 50,000 \div 50 \end{array}$	в.	$\begin{array}{c} 28 \div 7 \\ 280 \div 70 \\ 2800 \div 70 \\ 28,000 \div 70 \\ 280,000 \div 700 \end{array}$	C.	$\begin{array}{r} 42 \div 6 \\ 420 \div 60 \\ 4200 \div 60 \\ 42,000 \div 60 \\ 420,000 \div 600 \end{array}$		$\begin{array}{l} 30 \div 5 \\ 300 \div 50 \\ 3000 \div 50 \\ 30,000 \div 50 \\ 300,000 \div 50 \\ 300,000 \div 500 \end{array}$	
3		ow or tell how e, describe ho		u solved the prol he rule works.	oler	ms in Question 2	В.	If you used a	
				sentence for each				imate answers	
4	Each camper takes a turn making meals. Nicholas is preparing camp kabobs. He cut up cherry tomatoes, onions, peppers, mushrooms, squash, zucchini and eggplant. He has about 420 vegetable pieces. If he puts seven veggie pieces on each kabob, how many kabobs can he make?								
5	. Sara collected 200 small rocks. She arranged them in 9 rows. Each row is a different color. About how many rocks are in each row?								
6	The Wilderness Club raised \$6400 for three camp activities: boating, horse-back riding, and archery. If about the same amount is spent on each activity, how much money can be spent on each?								
7.	Jessie just signed up to go horse-back riding. She estimates that 80 campers are already on the list. 15 campers can go on each trail ride. There are 5 trail rides a day.								
	Α.	A. About how many trail rides will go before Jessie gets her turn?							
	в.	Do you think	Jes	sie will go horse	-ba	ck riding today (or to	omorrow?	

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	Nome Dote
	Estimate with Division Estimate each quotient. Show which multiplication facts you used to make your estimates. Example: 7)468
	Think: $7 \times 60 = 350$ $7 \times 60 = 420$ $7 \times 70 = 490$ 7×60
	 Answer: I used multiples of 10. Since 468 is between 7 × 60 = 420 and 7 × 70 = 490, the quotient will be at least 60 but less than 70. 1. 8)536
	2. 9)235
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8. 6416 ÷ 5		
7. 2908 ÷ 7		
6. 906 ÷ 4		
5. 728 ÷ 8		
Name	Date	

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Estimate with Division (SAB pp. 267–268) Questions 1–8

Estimates and strategies will vary. One possible strategy is given for each.

- I.* Between 60 and 70; 8 × 60 = 480 and 8 × 70 = 560, so 536 ÷ 8 is between 60 and 70.
- **2.*** Between 20 and 30; $9 \times 120 = 180$ and $9 \times 30 = 270$, so $235 \div 9$ is between 20 and 30.
- **3.** Less than 2500; $3 \times 2500 = 7500$, so $7255 \div 3$ will be less than 2500.
- **4.** More than 700, $6 \times 700 = 4200$, so $4420 \div 6$ will be more than 700.
- **5.** 91; 720 \div 8 = 90, so 728 \div 8 is one more, 91.
- **6.** Less than 250; $1000 \div 4 = 250$, so $906 \div 4$ is less than 250.
- **7.** A little more than 400; $2800 \div 7 = 400$, so 2908 will be more than 400.
- **8.** About 1280; $6000 \div 5 = 1200$ and $400 \div 5 = 80$, so 6416 will be close to 1280.

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