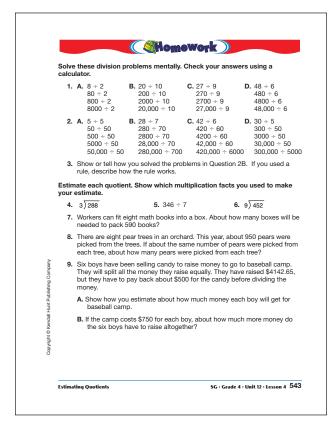
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Homework (SG p. 543) Questions 1–9

- 1. A. 4; 40; 400; 4000
 B. 2; 20; 200; 2000
 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
- **3.** Strategies will vary. Possible response: I know $28 \div 7 = 4$. I used that fact to answer the others. Each time I thought of a multiplication problem like $70 \times ? = 280$. I know $4 \times 7 = 28$ so $4 \times 70 = 280$.

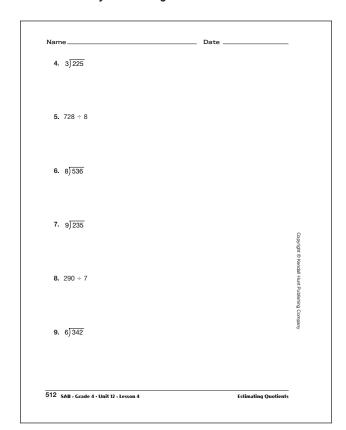
Possible responses and estimation strategies given for Questions 4–9:

- **4.** $288 \div 3$ is a little less than 100 because $300 \div 3 = 100$. $3 \times 100 = 300$ and $3 \times 90 = 270$. I used 3×10 and 3×9 .
- **5.** $346 \div 7$ is a little less than $50.7 \times 50 = 350$ and $7 \times 40 = 280$. I used 7×5 and 7×4 .
- **6.** $452 \div 9$ is about 50. $9 \times 50 = 450$ and $9 \times 60 = 540$. 452 is close to 450. I used 9×5 and 9×6 .
- 7. 590 \div 8. Possible estimate: A little more than 70 boxes but fewer than 80 boxes. $8 \times 70 = 560, 8 \times 80 = 640.$
- **8.** $950 \div 8$ is more than $100.8 \times 100 = 800$ and $8 \times 200 = 1600$. 950 is closer to 800 than it is to 1600, so the answer is probably closer to 100 than to 200.
- **9. A.** 4142.65 500 = 3642.65. $$3600 \div 6 = \text{about } $600 \text{ for each boy.}$
 - **B.** An additional \$150 per boy needs to be raised, so the boys need to raise about \$900 more.



Student Activity Book- Page 543

Student Activity Book - Page 511



Student Activity Book - Page 512

Student Activity Book

Using Multiplication Facts to Estimate

Questions 1-9 (SAB pp. 511-512)

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

- 1. $384 \div 5$ is between 70 and 80 because $5 \times 70 = 350$ and $5 \times 80 = 400$.
- **2.*** 4×6 and 4×7 . Less than 70; $280 \div 4 = 70$, so $256 \div 4$ is less than 70, but more than 60.
- 3. 5×8 and 5×9 . A little more than 80; $5 \times 80 = 400$ and $5 \times 90 = 450$, so $416 \div 5$ is between 80 and 90, but it is closer to 80 because 416 is closer to 400 than it is to 450.
- **4.** 3×7 and 3×8 . Between 70 and 80; $3 \times 70 = 210$ and $3 \times 80 = 240$, so $225 \div 3$ is between 70 and 80.
- **5.** 8×9.91 ; $720 \div 8 = 90$, so $728 \div 8$ is one more, 91.
- **6.** 8×6 and 8×7 . Between 60 and 70; $8 \times 60 = 480$ and $8 \times 70 = 560$, so $536 \div 8$ is between 60 and 70.
- 7. 9×2 and 9×3 . Between 20 and 30; $9 \times 20 = 180$ and $9 \times 30 = 270$, so $235 \div 9$ is between 20 and 30.
- **8.** 7×4 and 7×5 . A little more than 40; $7 \times 40 = 280$ and $7 \times 50 = 350$, so $290 \div 7$ is between 70 and 80 but it will be closer to 70 because 290 is closer to 280 than it is to 350.
- **9.** 6×5 and 6×6 . Between 50 and 60; $6 \times 50 = 300$ and $6 \times 60 = 360$, so $342 \div 6$ is between 50 and 60.

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