

Homework (SG p. 297)

Questions 1–7

1. **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
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 $4 \times 7 = 28$ and so $4 \times 70 = 280$.
4. $420 \div 7$; 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.



Solve these division problems mentally. Check your answers using a calculator.

- | | | | |
|---|--|---|--|
| 1. A. $8 \div 2$
$80 \div 2$
$800 \div 2$
$8000 \div 2$ | B. $20 \div 10$
$200 \div 10$
$2000 \div 10$
$20,000 \div 100$ | C. $27 \div 9$
$270 \div 9$
$2700 \div 9$
$27,000 \div 9$ | D. $48 \div 6$
$480 \div 6$
$4800 \div 6$
$48,000 \div 6$ |
| 2. A. $5 \div 50$
$50 \div 50$
$500 \div 50$
$5000 \div 50$
$50,000 \div 50$ | B. $28 \div 7$
$280 \div 70$
$2800 \div 70$
$28,000 \div 70$
$280,000 \div 700$ | C. $42 \div 6$
$420 \div 60$
$4200 \div 60$
$42,000 \div 60$
$420,000 \div 6000$ | D. $30 \div 5$
$300 \div 50$
$3000 \div 50$
$30,000 \div 500$
$300,000 \div 5000$ |

3. Show or tell how you solved the problems in Question 2B. If you used a rule, describe how the rule works.

Write a division number sentence for each question. Then estimate answers to the problems. Show or tell how you made the estimates.

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.
 - A.** About how many trail rides will go before Jessie gets her turn?
 - B.** Do you think Jessie will go horse-back riding today or tomorrow?

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Name _____ Date _____

Estimate with Division

Estimate each quotient. Show which multiplication facts you used to make your estimates.

Example: $7 \overline{)468}$

Think:

$7 \times 50 = 350$
$7 \times 60 = 420$
$7 \times 70 = 490$

 ← 468

Answer: I used multiples of 10. Since 468 is between $7 \times 60 = 420$ and $7 \times 70 = 490$, the quotient will be at least 60 but less than 70.

- $8 \overline{)536}$
- $9 \overline{)235}$
- $3 \overline{)7225}$
- $6 \overline{)4420}$

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Name _____ Date _____

- $728 \div 8$
- $906 \div 4$
- $2908 \div 7$
- $6416 \div 5$

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

Student Activity Book

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

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

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