

**One Way****Use rounding to estimate  $258 \div 6$ .**

Remember that you can round to the nearest tens or hundreds.

Round 258 to 300.

$$300 \div 6 = 50$$

50 shells is an overestimate, since 258 was rounded up to 300.

**Would it make sense to round 258 to 260?**

[No, because you can't use mental math to solve  $260 \div 6$ ]

**Another Way****Use compatible numbers.**

Replace 258 with 240.

240 and 6 are compatible, since  $24 \div 6 = 4$ . You can use mental math to find  $240 \div 6 = 40$ .

40 shells is an underestimate, since 258 was rounded down to 240.

Jorge should put between 40 and 50 shells in each box.

*Will the number of shells be closer to 40 or to 50? How do you know?* [40; 258 is closer to 240 than to 300.]

**Prevent Misconceptions**

Some students may only think about the basic fact and forget to write zero(s) in the estimated quotient. Encourage students to rewrite the problem using the rounded or compatible numbers before dividing.

**One Way****Use rounding to estimate  $258 \div 6$ .**

Remember that you can round to the nearest tens or hundreds.

Round 258 to 300.

$$300 \div 6 = 50$$

50 shells is an overestimate, since 258 was rounded up to 300.

**Another Way****Use compatible numbers.**

Replace 258 with 240.

240 and 6 are compatible, since  $24 \div 6 = 4$ . You can use mental math to find  $240 \div 6 = 40$ .

40 shells is an underestimate, since 258 was rounded down to 240.

Jorge should put between 40 and 50 shells in each box.

**Problem Solving**

Exercise	Content
35	Multiple Step [ $20 - (2.25 \times 7)$ ]
36	Communicate Math Understanding Compatible Numbers
37	Estimate quotient ( $63 \div 7$ )
38	Division ( $560 \div 7$ )
39	Estimate quotient ( $600 \div 3$ )
40	Subtraction ( $499 - 100$ ) Extra Information
41	Estimate quotient ( $18 \div 3$ )

Students use underlying processes and mathematical tools for Exercises 35–41. Remind students to check for reasonableness when solving each problem.

**Exercise 40****Problem-Solving Skill: Extra Information**

Sometimes students will need to determine whether there is extra information or not enough information to solve the problem. **Do you need all of the information in the problem?** [No] **What is the information you do not need?** [The cost of the laser printer]

**Exercise 41**

**Test-Taking Tip: Understand the Question** Remind students to look for important words. **The word "about" tells you that you do not need an exact answer.**

**Early Finishers** Change the word problems in Exercises 38 and 39 so that you use a different divisor. In Exercise 38, you may change the number of sections, and in Exercise 39, the number of months. Then solve the problems.

**Problem Solving**

35. While shopping, Tina's mom bought 7 tacos for the family for lunch. Each taco cost \$2.25, including tax. How much change did Tina's mom get from a \$20 bill?  
**\$4.25**

37. Seven friends collected coats for a clothing drive. The students gathered 61 coats. Each person collected about the same number. About how many coats did each student collect?  
**About 9 coats per student**

39. Toby earned \$596 in 3 months for mowing lawns. If he was paid the same amount each month, about how much did he earn per month?  
**About \$200**

40. **Think About the Process** A digital camera costs \$499. A laser printer for the camera costs \$277. If you have \$100 to spend, which expression can you use to find how much more money you need to save to buy the digital camera?

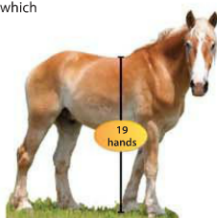
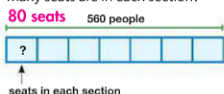
- A**  $499 - 100$       **C**  $499 + 100$   
**B**  $277 + 100 + 499$       **D**  $277 - 100$

41. Horses are measured in hands. Three hands equal 1 foot. Radar, the world's tallest horse, is about 19 hands high. About how many feet tall is Radar?

- A** 5 feet      **C** 7 feet  
**B** 6 feet      **D** 8 feet

36. **Writing to Explain** If you want to use compatible numbers to estimate  $262 \div 7$ , is it better to use  $210 \div 7$  or  $280 \div 7$ ? Explain.  
 **$280 \div 7$  because 280 is closer to 262 than 210.**

38. The town of Kingswood just completed building a new auditorium. There are 7 sections in the auditorium. The auditorium seats 560 people. How many seats are in each section?



Lesson 4-2

87