Step 2

Divide the tens. Multiply and subtract. Continue the process.

```
      31 R2
15)467
    - 45
      17
    - 15
       2
```

What is an estimate for the number of packages? [30]

How many packages are full so far? [31] *How many tortillas are left over?* [2] *2 is the remainder. What do you do about the remainder in this case?* [Ignore it because the question asks how many packages are complete. There are 2 extra tortillas, but they don't make a complete package.]

Step 3

Check:
```
    31
  × 15
   155
   310
   465
```
465 + 2 = 467

So far, 31 packages of tortillas will be filled.

How many more tortillas would they need to make to fill 32 packages? [13 more tortillas or 480 tortillas]

Step 1

Estimate to help decide where to place the first digit in the quotient.

Use compatible numbers.

450 ÷ 15 = 30

Start dividing tens.

Step 2

Divide the tens. Multiply and subtract. Continue the process.

```
      31 R2
15)467
    - 45
      17
    - 15
       2
```

Step 3

Check:
```
    31
  × 15
   155
  + 310
   465
```
465 + 2 = 467

So far, 31 packages of tortillas will be filled.

Problem Solving

23. **Writing to Explain** If you are asked to find 621 ÷ 59, how do you know the quotient will be greater than 10 before you actually divide? **I know that 59 × 10 = 590 is less than 621.**

24. Julita bought a sandwich for $3.50 and a glass of juice for $1.75. The tax was $0.42. She paid with a $10 bill. How much change did she get? **$4.33**

25. An outdoor concert company is putting on 12 concerts this summer. Each concert is sold out. The company sold a total of 972 seats. How many people will attend each performance?

A 8   C 80
B 79   (D) 81

26. Julio spends about $\frac{1}{2}$ hour reading every night. He owns 8 science fiction books, 12 mystery books, and 7 history books. He wants to add enough books to his collection to have 40 books. How many more books does he need? **13 more books**

27. There are 120 minutes in 2 hours. How many minutes are there in 15 hours? **900 minutes**

28. What compatible numbers can you use to estimate 803 ÷ 86? **810 and 90 or 800 and 80**

29. One of the Thorny Devil lizard's favorite foods is ants. It can eat up to 45 ants per minute. How long would it take it to eat 540 ants?

A 9 minutes
B 10 minutes
(C) 12 minutes
D 15 minutes

30. **Number Sense** Decide if each statement is true or false. Explain.

a 710 ÷ 20 is greater than 30.
True; 20 × 30 < 710
b 821 ÷ 40 is less than 20.
False; 20 × 40 < 821
c 300 ÷ 15 is exactly 20.
True; 20 × 15 = 300

31. Braedy had $5.00 when she left the county fair. She spent $11.00 on her ticket, and she bought lunch for $6.00. After lunch, she spent $17.00 on games and rides. How much money did Braedy bring to the county fair? **$39.00**

Problem Solving

Exercise	Content
23	Communicate Math Understanding Estimation
24	Multiple Step [$10 − ($3.50 + $1.75 + $0.42)]
25	Division (972 ÷ 12)
26	Extra Information Multiple Step [40 − (8 + 12 + 7)]
27	Multiple Step [(120 ÷ 2) × 15]
28	Compatible Numbers
29	Division (540 ÷ 45)
30	Number Sense Compare
31	Addition ($5 + $11 + $6 + $17)

Students use underlying processes and mathematical tools for Exercises 23–31. Remind students to check for reasonableness when solving each problem.

Exercise 25
Test-Taking Tip: Make a Plan Encourage students to think about problem-solving skills and strategies. *Remember that you should think about what is being divided. Are you dividing the total seats by number of concerts or the number of concerts by the total seats?* [Total seats by number of concerts: 972 ÷ 12 = 81]

Early Finishers Refer to the information in Exercise 25. *The outdoor concert company is charging $15.00 a ticket. How much money will it make for the concert series if all the seats sell out for all 12 concerts?* [$14,580]