

Name _____

Dividing Multiples of 10 and 100

Use mental math to find each quotient.

1. $27 \div 9 =$

2. $270 \div 9 =$

3. $2,700 \div 9 =$

4. $24 \div 4 =$

5. $240 \div 4 =$

6. $2,400 \div 4 =$

7. $720 \div 9 =$

8. $140 \div 7 =$

9. $2,100 \div 3 =$

10. If a bike race covers 120 mi over 6 days and the cyclists ride the same distance each day, how many miles does each cyclist ride each day?

Use mental math to answer the following questions.

11. If the vehicles are divided evenly between the sections, how many vehicles are in each section?

Dealership Vehicle Storage	
Sections of vehicles 4
Vehicles for sale 1,200
Rows per section 10

12. If the vehicles are divided evenly between the rows in each section, how many vehicles are in each row?

13. **Algebra** If $160,000 \div n = 4$, find n .

14. Find $32,000 \div 8$ mentally.

A 4,000

B 400

C 40

D 4

15. **Explain It** Solve the equation $n \times 50 = 5,000$. Explain your solution.

Estimating Quotients

Estimate each quotient. Tell which method you used.

1. $195 \div 4$ _____

2. $283 \div 5$ _____

3. $766 \div 8$ _____

4. $179 \div 2$ _____

5. $\$395.20 \div 5$ _____

6. $\$31.75 \div 8$ _____

7. $\$247.80 \div 5$ _____

8. **Reasoning** If you use $\$63.00 \div 9$ to estimate $\$62.59 \div 9$, is \$7.00 greater than or less than the exact answer? Explain.
- _____

9. A band played 3 concerts and earned a total of \$321.00. The band earned about the same amount for each concert. Estimate how much the band earned each night.
- _____
10. At a department store, a woman's total was \$284.00 for 7 items. Estimate the average cost per item.
- _____

11. Which is the closest estimate for $213 \div 4$?

A 50 B 40 C 30 D 20

12. **Explain It** Explain how to estimate $524 \div 9$.
- _____
- _____

Dividing by 1-Digit Divisors

Find each quotient.

1. $2\overline{)586}$

2. $3\overline{)565}$

3. $5\overline{)718}$

4. $4\overline{)599}$

5. $5\overline{)642}$

6. $6\overline{)354}$

7. $9\overline{)210}$

8. $8\overline{)927}$

The Paez family lives in Louisville, Kentucky, and has decided to take a road trip for their summer vacation.

9. How many miles will the Paez family drive each day if they decide to take 5 days to drive 865 mi to Dallas?

10. The Paez family decides they want to drive 996 mi to Boston in 6 days. How many miles will they drive each day?

11. **Reasonableness** If a staff of 9 people had to clean a hotel with 198 rooms, how many rooms would each person have to clean if they divided the rooms equally?

A 29

B 25

C 23

D 22

12. **Explain It** Explain how to check the quotient from a division problem.

Zeros in the Quotient

Find each quotient. Check your answers by multiplying.

1. $490 \div 7 =$ _____ 2. $326 \div 3 =$ _____

3. $916 \div 3 =$ _____ 4. $720 \div 2 =$ _____

5. $2\overline{)941}$ 6. $9\overline{)982}$ 7. $7\overline{)740}$ 8. $5\overline{)703}$

9. If there are 505 seats in an auditorium divided equally into 5 sections, how many seats are in each section? _____

10. A book company publishes 749 copies of a novel and distributes them to 7 bookstores. If each bookstore were to receive the same number of copies, how many copies would be sent to each store? _____

11. In one year, Dolores and Tom's four children saved \$420 by recycling cans. When they divided the money equally, how much money did each child receive?

A \$50 B \$100 C \$105 D \$1,500

12. **Explain It** Explain why estimating before you divide $624 \div 6$ helps you place the first digit in the quotient.
- _____
- _____
- _____

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Understanding Factors

List all the factors of each number.

1. 36 _____
_____2. 90 _____
_____3. 84 _____

Number Sense A number is divisible by 4 if the last two digits are divisible by 4. Write yes on the line if the number is divisible by 4 and no if it is not.

4. 324 _____

5. 634 _____

6. 172 _____

7. A class of 80 students is graduating from elementary school. The teachers need help figuring out how to line up the students for the ceremony. One row of 80 students would be too long. What other ways could the students be arranged for the ceremony?
- _____
- _____
- _____

8. A number is divisible by another number when the _____ after division by that number is 0.
- _____
- _____

9. **Number Sense** What factor pair is missing for 45 if you already know 1 and 45, 5 and 9?

A 7 and 6

B 8 and 6

C 3 and 15

D. 4 and 12

10. **Explain It** Explain how to find all the factor pairs of 40.

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Practice

4-8

Prime and Composite Numbers

Write whether each number is prime or composite.

1. 21 _____ 2. 36 _____ 3. 31 _____

4. 87 _____ 5. 62 _____ 6. 23 _____

Use factor trees to find the prime factorization of each number.

7. 44 _____ 8. 63 _____

9. 13 _____ 10. 54 _____

11. **Number Sense** Audrey says that the prime factorization of 42 is 21×2 . Is she correct? If not, tell why.

12. Is 4,564,282 prime or composite? Explain how you determined your answer.

13. Which of the following is a prime number?

A 105 B 27 C 19 D 9

14. **Explain It** Does it matter what two factors you select to complete a factor tree? Explain.
