Dividing by One-Digit Divisors

Grade 5 Math • Section 2.2

Name: _____	Date: _____	Score: _____ / 17

Quick Review and Helpful Hints

Long-division steps: **D**ivide → **M**ultiply → **S**ubtract → **B**ring down. Repeat.

Check by multiplying: quotient × divisor + remainder = dividend.

If a digit in the dividend is too small to divide, write 0 in the quotient and bring down the next digit.

Example: Find $4{,}536 \div 8$.

8 goes into 45 five times ($8 \times 5 = 40$, remainder 5). Bring down 3: $53 \div 8 = 6$ remainder 5. Bring down 6: $56 \div 8 = 7$ exactly. Answer: 567.

Answer: 567

Practice Problems

Divide. Write the quotient and any remainder.

1. $846 \div 3 =$ _____
2. $975 \div 5 =$ _____
3. $1{,}248 \div 4 =$ _____
4. $3{,}654 \div 6 =$ _____
5. $5{,}040 \div 7 =$ _____
6. $2{,}709 \div 9 =$ _____
7. $4{,}816 \div 8 =$ _____
8. $1{,}530 \div 6 =$ _____
9. $9{,}072 \div 4 =$ _____
10. $7{,}203 \div 3 =$ _____
11. $6{,}125 \div 5 =$ _____
12. $8{,}461 \div 7 =$ _____
13. $3{,}504 \div 8 =$ _____
14. $2{,}917 \div 9 =$ _____
15. $5{,}555 \div 6 =$ _____

Word Problems

16. A bakery makes $2{,}346$ cookies and packs them equally into 6 boxes. How many cookies are in each box?

_____

17. A ribbon is $1{,}575$ centimeters long. It is cut into 9 equal pieces. How long is each piece?

_____

Answer Keys

1. 282
2. 195
3. 312
4. 609
5. 720
6. 301
7. 602
8. 255
9. $2,268$
10. $2,401$
11. $1,225$
12. $1,208$ R 5
13. 438
14. 324 R 1
15. 925 R 5
16. 391
17. 175

Step-by-Step Explanations

1. Start with the main idea. For dividing by one-digit divisors, divide 846 by 3. $846 \div 3 = 282$. Check division by multiplying the quotient back by the divisor.

2. Keep the work tidy. For dividing by one-digit divisors, divide 975 by 5. $975 \div 5 = 195$. A remainder means there was not enough left for one more full group.

3. Look at what the numbers mean. For dividing by one-digit divisors, divide $1,248$ by 4. $1,248 \div 4 = 312$. Use estimation to choose a quotient that is close before you divide exactly.

4. Use the setup first. For dividing by one-digit divisors, divide $3,654$ by 6. $3,654 \div 6 = 609$. Check division by multiplying the quotient back by the divisor.

5. Check the size of the answer. For dividing by one-digit divisors, divide $5,040$ by 7. $5,040 \div 7 = 720$. A remainder means there was not enough left for one more full group.

6. Match the operation to the words. For dividing by one-digit divisors, divide $2,709$ by 9. $2,709 \div 9 = 301$. Use estimation to choose a quotient that is close before you divide exactly.

7. Write the important values first. For dividing by one-digit divisors, divide $4,816$ by 8. $4,816 \div 8 = 602$. Check division by multiplying the quotient back by the divisor.

8. Follow the pattern carefully. For dividing by one-digit divisors, divide $1,530$ by 6. $1,530 \div 6 = 255$. A remainder means there was not enough left for one more full group.

9. Start with the main idea. For dividing by one-digit divisors, divide $9,072$ by 4. $9,072 \div 4 = 2,268$. Use estimation to choose a quotient that is close before you divide exactly.

10. Keep the work tidy. For dividing by one-digit divisors, divide $7,203$ by 3. $7,203 \div 3 = 2,401$. Check division by multiplying the quotient back by the divisor.

11. Look at what the numbers mean. For dividing by one-digit divisors, divide $6,125$ by 5. $6,125 \div 5 = 1,225$. A remainder means there was not enough left for one more full group.

12. Use the setup first. For dividing by one-digit divisors, divide $8,461$ by 7. $8,461 \div 7 = 1,208$ remainder 5. Use estimation to choose a quotient that is close before you divide exactly.

13. Check the size of the answer. For dividing by one-digit divisors, divide $3,504$ by 8. $3,504 \div 8 = 438$. Check division by multiplying the quotient back by the divisor.

14. Match the operation to the words. For dividing by one-digit divisors, divide $2,917$ by 9. $2,917 \div 9 = 324$ remainder 1. A remainder means there was not enough left for one more full group.

15. Write the important values first. For dividing by one-digit divisors, divide $5,555$ by 6. $5,555 \div 6 = 925$ remainder 5. Use estimation to choose a quotient that is close before you divide exactly.

16. Follow the pattern carefully. For dividing by one-digit divisors, divide cookies equally: $2{,}346 \div 6 = 391$. Check division by multiplying the quotient back by the divisor.

17. Start with the main idea. For dividing by one-digit divisors, divide the ribbon length by 9: $1{,}575 \div 9 = 175$ cm. A remainder means there was not enough left for one more full group.

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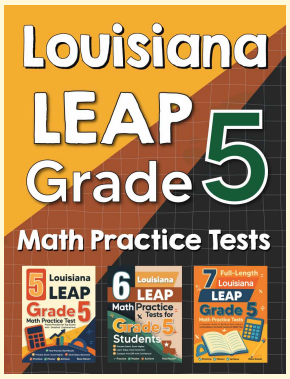

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