



# Long Division

## Divide and Launch!



Name: \_\_\_\_\_

Date: \_\_\_\_\_



### Section 1: Two-Digit by One-Digit

Divide step by step. Check by multiplying back.

**Example**

$84 \div 4 = ?$  8 tens  $\div 4 = 2$  tens and 4 ones  $\div 4 = 1$  one.  
 $84 \div 4 = 21$ . Check:  $21 \times 4 = 84$ .

a)  $96 \div 3 =$

b)  $72 \div 6 =$

c)  $85 \div 5 =$

d)  $92 \div 4 =$

e)  $78 \div 6 =$

### Section 2: Three- and Four-Digit by One-Digit

Work one place value at a time. Check by multiplying back.

**Example**

$5,436 \div 4 = ?$  The answer is 1,359. Check:  $1,359 \times 4 = 5,436$ .

a)  $756 \div 6 =$

b)  $648 \div 8 =$

c)  $915 \div 5 =$

d)  $2,436 \div 7 =$

e)  $6,372 \div 9 =$





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### Section 3: Remainders

Write each answer as a quotient with a remainder (R).

**Example**  $47 \div 6 = ?$   $6 \times 7 = 42$  and  $47 - 42 = 5$ .  $47 \div 6 = 7 \text{ R } 5$ .



a)  $29 \div 4 =$

b)  $53 \div 8 =$

c)  $71 \div 9 =$

d)  $125 \div 6 =$

e)  $3,407 \div 5 =$

### Section 4: Remainders in Word Problems

Divide, then decide what the remainder means.

**Example** 47 cookies are packed 6 to a box. How many full boxes?  
 $47 \div 6 = 7 \text{ R } 5$ . The answer is 7 full boxes.  
The 5 leftover cookies do not fill a box.

- a) 38 stars are put into groups of 5 for a space banner.  
How many full groups are made?

- b) 50 astronauts ride in shuttles that hold 8 each.  
How many shuttles are needed to carry everyone?

- c) 100 moon rocks are shared equally among 7 scientists.  
How many rocks does each scientist get,  
and how many are left over?

- d) 135 alien stickers go into packs of 4.  
How many full packs can be made?





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## Answer Key

Teacher Copy



### Section 1: Two-Digit by One-Digit

- a) 32      b) 12      c) 17      d) 23      e) 13

### Section 2: Three- and Four-Digit by One-Digit

- a) 126      b) 81      c) 183      d) 348      e) 708

### Section 3: Remainders

- a) 7 R 1      b) 6 R 5      c) 7 R 8      d) 20 R 5      e) 681 R 2

### Section 4: Remainders in Word Problems

- a) 7 full groups ( $38 \div 5 = 7 \text{ R } 3$ )  
b) 7 shuttles ( $50 \div 8 = 6 \text{ R } 2$ , one more shuttle is needed for the 2 left)  
c) 14 rocks each, 2 left over ( $100 \div 7 = 14 \text{ R } 2$ )  
d) 33 full packs ( $135 \div 4 = 33 \text{ R } 3$ )

