## Worksheet 3 Multiplying Ones, Tens, and Hundreds with Regrouping

Fill in the blanks.

- **1.** 17 ones = \_\_\_\_\_ ten \_\_\_\_ ones
- **2.** 15 ones = 1 \_\_\_\_\_ 5 \_\_\_
- **3.** 19 ones = 1 \_\_\_\_\_ 9 \_\_\_\_
- **4.** 12 tens = \_\_\_\_\_ hundred \_\_\_\_\_ tens
- **5.** 16 tens = \_\_\_\_\_ hundred \_\_\_\_\_ tens
- **6.** 14 tens = 1 \_\_\_\_\_ 4 \_\_\_\_
- **7.** 18 tens = 1 \_\_\_\_\_ 8 \_\_\_\_

### Fill in the missing numbers.

 $3 \times 57 = \underline{\hspace{1cm}} 1$  hundred  $\underline{\hspace{1cm}} 7$  tens  $\underline{\hspace{1cm}} 1$  one  $\underline{\hspace{1cm}} = \underline{\hspace{1cm}} 171$ 

8. 6 4 Step 1 4 × \_\_\_\_\_ ones = \_\_\_\_ ones × 4 = \_\_\_\_ ten \_\_\_\_ ones

> Step 2 4 × \_\_\_\_\_\_ tens = \_\_\_\_\_ tens \_\_\_\_\_ ten + \_\_\_\_\_ tens = \_\_\_\_\_ tens \_\_\_\_\_ tens = \_\_\_\_\_ hundreds \_\_\_\_\_ tens

 $4 \times 64 =$  \_\_\_\_\_ hundreds \_\_\_\_ tens \_\_\_\_ ones = \_\_\_\_

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

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

9. 3 6 Step 1 5 
$$\times$$
 \_\_\_\_ ones = \_\_\_ ones  $\times$  5 = \_\_\_ tens \_\_\_ ones

tens = \_\_\_\_\_ hundred \_\_\_\_\_ tens 
$$5 \times 36 =$$
 \_\_\_\_\_ hundred \_\_\_\_ tens \_\_\_\_ ones

d-6: <u>- 9 ......</u>

Multiply.

### Fill in the missing numbers.

 17 2
 Step 1
 4 × \_\_\_\_\_\_\_ ones = \_\_\_\_\_\_\_ ones

 × 4
 Step 2
 4 × \_\_\_\_\_\_ tens = \_\_\_\_\_\_ tens

 = \_\_\_\_\_\_ hundreds \_\_\_\_\_\_ tens
 \_\_\_\_\_\_ hundreds \_\_\_\_\_\_ hundreds

 Step 3
 4 × \_\_\_\_\_\_ hundreds = \_\_\_\_\_\_ hundreds

 \_\_\_\_\_\_ hundreds + \_\_\_\_\_\_ hundreds
 \_\_\_\_\_\_ hundreds

 4 × 172 = \_\_\_\_\_\_ hundreds \_\_\_\_\_\_ tens \_\_\_\_\_ ones
 \_\_\_\_\_\_ ones

$$4 \times 231 =$$
 \_\_\_\_\_ hundreds \_\_\_\_\_ tens \_\_\_\_ ones

Step 2 
$$5 \times \underline{\hspace{1cm}}$$
 tens =  $\underline{\hspace{1cm}}$  tens

Step 3 
$$5 \times \underline{\hspace{1cm}}$$
 hundred =  $\underline{\hspace{1cm}}$  hundreds

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

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

2 4 6 Step 1 
$$3 \times \underline{\hspace{1cm}}$$
 ones =  $\underline{\hspace{1cm}}$  ones

= \_\_\_\_ ten \_\_\_\_ ones

Step 2 
$$3 \times \underline{\hspace{1cm}}$$
 tens =  $\underline{\hspace{1cm}}$  tens

 $\underline{\hspace{1cm}}$  ten +  $\underline{\hspace{1cm}}$  tens =  $\underline{\hspace{1cm}}$  tens

= \_\_\_\_\_ hundred \_\_\_\_ tens

Step 3 
$$3 \times$$
\_\_\_\_\_ hundreds = \_\_\_\_ hundreds

\_\_\_\_\_ hundred + \_\_\_\_ hundreds

= \_\_\_\_\_ hundreds

$$3 \times 246 =$$
 \_\_\_\_\_ hundreds \_\_\_\_ tens \_\_\_\_ ones

Multiply.

Solve.

Example -

A bird has 2 legs. How many legs do 126 birds have in all?

$$126 \times 2 = 252$$

126 birds have 252 legs in all.

**24.** Fauzi has 4 books. Each book has 228 pages. How many pages are there in all?

**25.** There are 247 cars in a parking garage. How many wheels are there in the parking garage?

**26.** A tailor sews 2 blouses a day. How many blouses can she sew in a year? A year has 365 days.

27. A box contains 120 paperclips. How many paperclips are there in 8 such boxes?

## Worksheet 5 Division with Regrouping in Tens and Ones

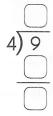
Complete.



 $5 \text{ ones} \div 3 = \underline{\hspace{1cm}} \text{ one, remainder } \underline{\hspace{1cm}} \text{ ones}$ 



2. 9 ones  $\div$  4 = \_\_\_\_\_ ones, remainder \_\_\_\_ one



3. 9 ones  $\div$  2 = \_\_\_\_\_ ones, remainder \_\_\_\_ one



### Divide.

### Complete.

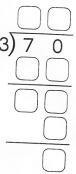
Example -

5 tens 
$$\div$$
 2 =  $2$  tens, remainder  $1$  ten  $1$  ten  $2$  tens ones

ones 
$$\div$$
 2 =  $\frac{5}{2}$  ones, remainder  $\frac{0}{2}$  ones  $0$  ones  $0$  ones  $0$  ones, remainder  $0$ 

$$= 25 R 0$$

10.



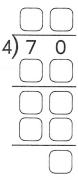
7 tens 
$$\div$$
 3 = \_\_\_\_ tens, remainder \_\_\_\_ ten

$$_{---}$$
 ten  $=$   $_{---}$  ones

— ones 
$$\div$$
 3 = — ones, remainder — one

$$70 \div 3 =$$
 tens \_\_\_\_ ones, remainder \_\_\_\_

11.

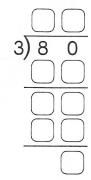


7 tens  $\div$  4 = \_\_\_\_ ten, remainder \_\_\_\_ tens

$$_{---}$$
 tens  $=$   $_{---}$  ones

 $\longrightarrow$  ones  $\div$  4 =  $\longrightarrow$  ones, remainder  $\longrightarrow$  ones

12.



8 tens  $\div$  3 = \_\_\_\_ tens, remainder \_\_\_\_ tens

 $\longrightarrow$  ones  $\div$  3 =  $\longrightarrow$  ones, remainder  $\longrightarrow$  ones

Fill in the missing numbers.

**13.** 
$$60 \div 2 =$$
 \_\_\_\_\_\_, remainder \_\_\_\_\_

**14.** 90 
$$\div$$
 4 = \_\_\_\_\_\_, remainder \_\_\_\_\_

**15.** 
$$80 \div 3 =$$
 \_\_\_\_\_\_, remainder \_\_\_\_\_

### Complete.

Example -

14 ones  $\div$  2 =  $\frac{7}{}$  ones

**16.** 18 ones  $\div$  3 = \_\_\_\_\_ ones

17.  $24 \text{ ones } \div 4 =$ \_\_\_\_\_ ones

**18.** 25 ones  $\div$  5 = \_\_\_\_\_ ones

Fill in the missing numbers.

$$36 \div 2 = \underline{\qquad 1 \qquad}$$
 ten  $\underline{\qquad 8 \qquad}$  ones

$$34 \div 2 =$$
 \_\_\_\_\_\_ ten \_\_\_\_\_ ones

$$56 \div 4 =$$
 \_\_\_\_\_ ones

$$42 \div 3 =$$
 \_\_\_\_\_ ten \_\_\_\_ ones

$$78 \div 3 =$$
 \_\_\_\_\_ tens \_\_\_\_ ones

Divide.

# 

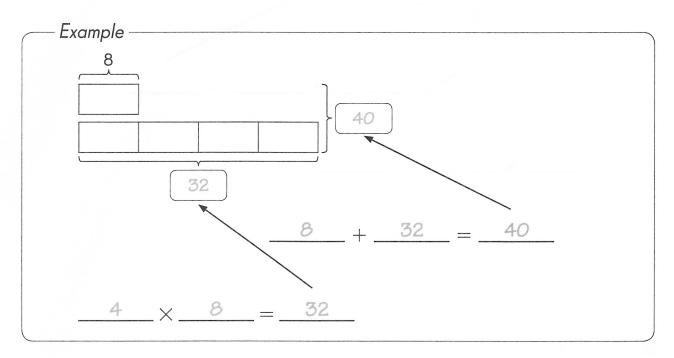
3) 5 7

3) 8 1

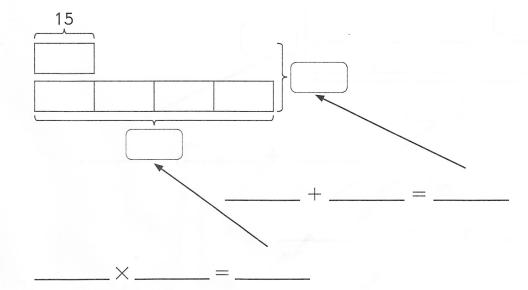
4) 5 6

## Worksheet 2 Real-World Problems: Two-step Problems with Multiplication

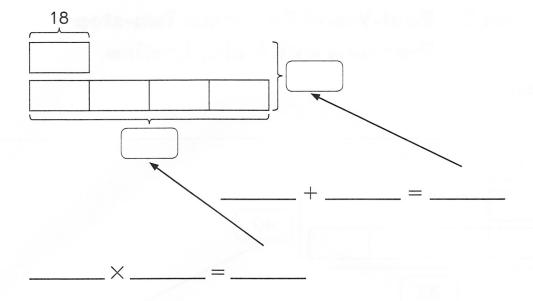
Complete.



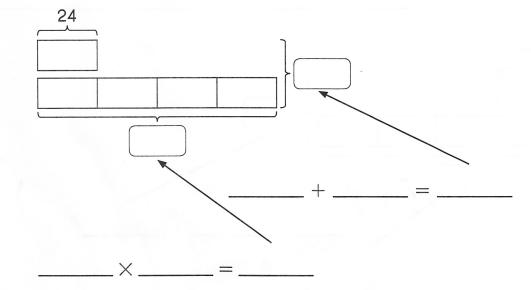
1.



2.



3.



### Solve. Use bar models to help you.

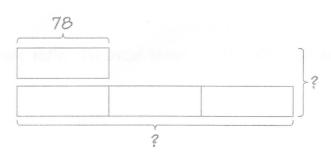
Example -

A company employs 78 workers at its factory.

The company opens another factory.

The second factory employs three times as many workers as the first factory.

■ How many workers does the second factory employ?



$$3 \times 78 = 234$$

The second factory employs 234 workers.

- **b.** How many workers do both factories employ? 78 + 234 = 312 Both factories employ 312 workers.
- In February, 32 members join a new club.

  During the spring, five times as many members join the club.

  How many club members are there at the end of spring?

A store owner buys 24 boxes of apples.

Each box contains 8 apples.

During a sale, he sells 63 of his apples.

How many apples does he have at first?

**b.** How many apples does the store owner have left after the sale?

In the auditorium, Brad arranges 35 rows of chairs.
Each row has 7 chairs.
During the performance, 78 chairs are empty.

How many chairs does Brad arrange?

**b.** How many people attend the performance?

7. A farmer keeps 27 chicks and 18 ducklings in each coop. She has 9 coops. How many chicks and ducklings does the farmer have altogether?

Sally has 56 stamps.
Sarah has three times as many stamps as Sally.
Their brother, Peter, has 45 stamps less than Sarah.
How many stamps does Peter have?

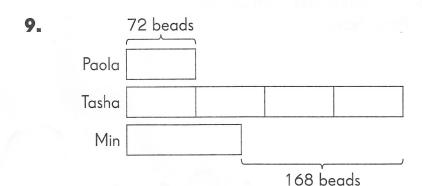
Write a two-step word problem using the bar models. Ask a friend to solve the problem.

S42
Alice
Belinda

Alice has \$42.

Belinda has 4 times as much money as Alice.

- a. How much money does Belinda have?  $4 \times $42 = $168$  Belinda has \$168.
- b. How much money do Alice and Belinda altogether? \$42 + \$168 = \$210 Alice and Belinda have \$210 altogether.

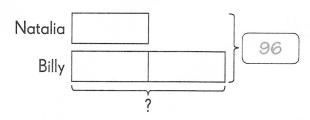


## Worksheet 4 Real-World Problems: Two-step Problems with Division

Solve. Use bar models to help you.

They have 96 stamps altogether.

How many stamps does Billy have?



1 unit 
$$\rightarrow$$
 96 ÷ 3 = 32

2 units 
$$\rightarrow$$
 2 × 32 = 64

Jeron moves three times as many bricks as Matthew.
They move 136 bricks altogether.
How many bricks does Jeron move?

Matthew Jeron 2

\_\_\_\_\_ units -> \_\_\_\_\_

1 unit → \_\_\_\_\_

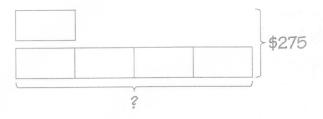
\_\_\_\_\_ units -> \_\_\_\_

Jeron moves \_\_\_\_\_ bricks.

#### Solve. Use bar models to help you.

Example -

Jessica spends four times as much money as Kathy. Both of them spend \$275 altogether. How much money does Jessica spend?



5 units 
$$\rightarrow$$
 \$275  
1 unit  $\rightarrow$  \$275  $\div$  5 = \$55  
4 units  $\rightarrow$  4  $\times$  \$55 = \$220  
Jessica spends \$220.

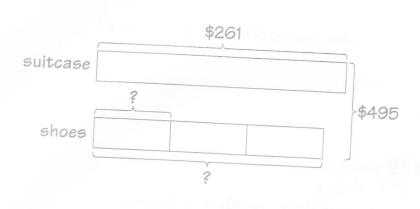
In a math competition, Gabriel completes three times as many problems as Harry.
Both of them complete 72 problems.
How many problems does Gabriel complete?

### Solve. Use bar models to help you.

Example -

Mrs. Lee buys 3 pairs of shoes and a suitcase for \$495. The suitcase costs \$261.

How much do the 3 pairs of shoes cost?



\$495 - \$261 = \$234 3 pairs of shoes cost \$234.

- How much does each pair of shoes cost?
  \$234 ÷ 3 = \$78
  Each pair of shoes costs \$78.
- Rosanna buys 8 packages of pencils.

  Each package has 24 pencils.

  She divides all the pencils equally into 6 boxes.
  - d. How many pencils does Rosanna buy in all?
  - **b.** How many pencils does each box contain?

- 4. Mr. Chan buys 862 apples and oranges.
  He keeps all of the 254 oranges in a box. He packs all of the apples equally into 4 crates.
  - **a.** How many apples does Mr. Chan buy?
  - **b.** How many apples are packed into each crate?
- Jane has 189 stickers.

  Adam has 251 stickers.

  They put all of their stickers equally into 5 boxes.

  How many stickers does each box have?

Michael has 992 cartons of milk.

He packs the cartons equally into 8 boxes.

He sells each carton for \$3.

How much money does Michael earn for each box of milk?

Write a word problem using the bar models. Then solve the problem.

Example

6 blocks

84 blocks

84 blocks are arranged in groups of 6 blocks each.

How many groups are there?

84  $\div$  6 = 14

- There are 14 groups.
- Mr. Lim

  Mr. Smith

  Mr. Samy

8.

