# Fifth Grade <br> Answer Key Unit 3: Division 

## See PDF bookmarks for navigation

$\qquad$

## Problem of the Day

## Lesson 1

Complete each multiplication equation.

$$
0.3 \times \underline{10}=3
$$

$$
0.03 \times \_=10=0.3
$$

$$
0.003 \times \_=0.03
$$

## Lesson 2

Complete each equation.
$9 \times \_6=54$
$9 \times \underline{60}=540$
$9 \times \underline{600}=5,400$

## Lesson 3

Which expression would you use to help estimate the solution to $480 \div 7$ ?
A. $490 \div 7$
B. $500 \div 10$
C. $450 \div 5$
D. $500 \div 5$

Explain your choice.

## Lesson 4

Grace has the Base Ten Blocks shown. She divides them into two equal groups. Show how many blocks would be in each group.



$\square \square$
$\square \square$

143

## Lesson 5

Complete the area model.


288
$\qquad$

## Problem of the Day

## Lesson 6

Which expression would you use to help estimate the solution to $74 \div 23$ ?
A. $70 \div 20$
B. $80 \div 20$
C. $75 \div 25$
D. $100 \div 20$

Explain your choice.

## Lesson 7

Complete the equation.
$427=(42 \times 10)+(7 \times 1)$

## Lesson 8

Find each quotient.
$6,000 \div 20=\underline{300}$
$800 \div 20=\underline{40}$
$40 \div 20=\underline{2}$

## Lesson 10

Complete the strip diagram.

| 400 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 80 | 80 | 80 | 80 | 80 |

$\qquad$

## Problem of the Day

## Lesson 11

Without dividing, sort the expressions to show which quotients will have a remainder and which will not.
$120 \div 5$
$48 \div 2$
$381 \div 10$
$67 \div 2 \quad 258 \div 5$
$4,270 \div 10$
Expressions highlighted will NOT have a remainder:

## Lesson 12

The model shows the number 1.4.


How could you show 1.4 using only rods?


## Lesson 13

Antonio shaded a hundredths grid to show 0.24. Show two different ways that Antonio could have shaded the model.


## Lesson 14

Lucy has $\$ 0.51$. She wants to buy some cherries. Each cherry costs 4 cents. About how many cherries can she buy? Explain how you found your answer.
Sample answer: Lucy can buy 12 cherries. I found my answer by dividing 0.51 by 0.4 .

## Lesson 15

A fifth-grade class collected dimes in a fundraiser. In all, they collected $\$ 26.30$. How many dimes did they collect?
A. 263
B. 2,630
C. 26,300
D. 263,000
$\qquad$

## Problem of the Day

## Lesson 16

Find the quotient.


## Lesson 17

Gumballs cost 1 quarter. Complete the chart to show how many gumballs can be purchased for each amount of money.

| Amount of <br> Money | Number of <br> Gumballs |
| :---: | :---: |
| $\$ 1.00$ | 4 |
| $\$ 2.00$ | 8 |
| $\$ 5.00$ | 20 |
| $\$ 5.50$ | 21 |
| $\$ 10.00$ | 40 |

## Lesson 18

Complete each equation.
$11 \times \underline{8}=88$
$80 \times \underline{30}=2,400$
$12 \times \underline{40}=480$

## Lesson 19

Use the multiplication problem $0.6 \times 2=1.2$ to create two related division problems.

$$
\begin{aligned}
& 2 \div 1.2=0.6 \\
& 2 \div 0.6=1.2
\end{aligned}
$$

## Lesson 20

Complete the strip diagram.

$\qquad$

## Pre-Assessment

Complete the area models.
1.

2.


Complete the patterns.
3. $\begin{aligned} & 15 \div 3=\frac{5}{50} \\ & 150 \div 3=\underline{50} \\ & 1,500 \div 3=500\end{aligned}$

Divide. Show your work.
4. $48 \div 4=\underline{12}$

$$
480 \div 4=120
$$

$$
4,800 \div 4=1,200
$$

5. $416 \div 8=$ 52
6. $1,035 \div 45=\underline{23}$
7. $1.8 \div 9=\underline{0.2}$
$\qquad$ 8. $0.72 \div 0.08=$ $\qquad$ 9
8. A school received a shipment of 1,008 rulers. If the rulers are divided evenly among 36 classrooms, how many rulers will be given to each classroom?

## 28 rulers

10. A board that is 0.84 meter long is divided into 2 equal pieces. How long is each piece?
0.42 meter
$\qquad$

## Dividing Whole Numbers Quiz

Complete the patterns.

1. $25 \div 5=$ $\qquad$ 2. $44 \div 22=$ _ 2

$$
\begin{aligned}
& 250 \div 5=50 \\
& 2,500 \div 5=500
\end{aligned}
$$

$440 \div 22=\underline{20}$
$4,400 \div 22=\underline{220}$

Divide. Use an area model or partial quotients. Show your work.
3. $5,216 \div 8=\underline{652}$
4. $448 \div 16=\underline{28}$

Use compatible numbers to estimate the solution. Show your work.
5. $4,600 \div 50$
~90
6. $410 \div 6$
~70

Divide using the standard algorithm. Show your work.
7. $4,536 \div 6=\underline{756}$
8. $3,926 \div 12=\underline{327 r 16}$
9. A total of 22 people can ride a roller coaster in one trip. There are 1,170 people in line for the roller coaster. How many trips would the roller coaster need to take for all of the people in line to ride?

## 54 trips

10. A roll of tape is 2,163 inches long. How many 18 -inch pieces of tape can be cut from the roll?
120 pieces of tape
$\qquad$
Dividing Decimals Quiz
Divide.
11. $0.8 \div 2=\underline{0.4}$
12. $3.5 \div 5=\underline{0.7}$
13. $0.32 \div 8=\underline{0.04}$
14. $0.27 \div 3=0.09$

Use compatible numbers to estimate each solution. Show your work.
5. $3.8 \div 4$
6. $0.73 \div 0.08$
~1
~9

Divide using the standard algorithm. Show your work.
7. $0.504 \div 0.8=\underline{0.63}$
8. $21.84 \div 0.7=\underline{31.2}$
9. The cost of a package of 8 hamburger buns is $\$ 2.16$. What is the price for each bun?
\$0.27
10. A bag of metal beads weighs 4.8 ounces. Each bead weighs 0.04 ounce. How many beads are in the bag? 120 beads
$\qquad$

## Assessment

Complete the patterns.

1. $42 \div 7=$
2. $33 \div 3=\underline{11}$
3. $24 \div 12=\underline{2}$

$$
420 \div 7=\underline{60}
$$

$$
330 \div 3=110
$$

$$
240 \div 12=\underline{20}
$$

$$
4,200 \div 7=\underline{600}
$$

$$
3,300 \div 3=1,100
$$

$$
2,400 \div 12=200
$$

Use compatible numbers to estimate each solution. Show your work.
4. $649 \div 8 \sim 80$
5. $7513 \div 24 \sim 300$
7. $0.91 \div 3 \sim 0.3$

Divide. Show your work.
8. $9,546 \div 3=3,182$
9. $1,872 \div 8=\underline{234}$
10. $3,198 \div 26=\underline{123}$
12. $5,623 \div 24=\underline{234 r 29}$
11. $1,458 \div 27=$ $\qquad$ 54
13. $0.6 \div 3=0.2$
14. $3.6 \div 6=\underline{0.6}$
16. $0.64 \div 0.32=\underline{2}$
15. $0.21 \div 7=0.03$
17. $3.42 \div 0.3=\underline{11.4}$
18. A school spent $\$ 6,519$ on 123 fifth-grade math books. What was the cost of each book?
\$54 for one book
19. Alicia paid $\$ 14.88$ for 6 pints of strawberries. What was the cost of each pint?
\$2.48 for one pint
20. Malik walks from his home to and from school each day. In 4 days, he walked a total of 4.8 miles. How far is Malik's home from the school?
0.6 miles

## $4,800 \div 8=\underline{600}$

## $2,700 \div 9=\quad 300$

## $5,400 \div 6=$ <br> 900

## $280 \div 4=$ 70

## $1,600 \div 4=$ <br> 400

## $350 \div 7=$ <br> 50

## $4,200 \div 6=$ <br> 700

## $210 \div 3=\quad 70$

## $450 \div 9=$ <br> 50

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Use the Pattern Cards

## $6,300 \div 7=\quad 900$

## $3,200 \div 4=$ <br> 800

## $440 \div 11=\quad 40$

## $6,579 \div 8$ <br> Multiplication Fact <br> $8 \times \underline{{ }^{822} 38}=\underline{6,579}$ <br> Compatible Numbers <br> $6,400 \div 8$ <br> Estimated Quotient 800

## $1,422 \div 5$ <br> Multiplication Fact <br> $$
5 \times \underset{r 4}{280}=1,422
$$ <br> Compatible Numbers <br> $$
\underline{1,400} \div 5
$$ <br> Estimated Quotient 280

## $2,916 \div 3$ <br> Multiplication Fact <br> $3 \times \underline{972}=\underline{2,916}$ <br> Compatible Numbers <br> $3,000 \div 3$ <br> Estimated Quotient 1,000

## $8,043 \div 9$ <br> Multiplication Fact <br> $$
9 \times \begin{aligned} & 893 \\ & \hline \end{aligned}
$$ <br> Compatible Numbers <br> $$
8,100 \div 9
$$ <br> Estimated Quotient 900

## $4,687 \div 7$ <br> Multiplication Fact 669 <br> $7 \times{ }^{757}=4,687$ <br> Compatible Numbers <br> $4900 \div 7$ <br> Estimated Quotient 700

\section*{$3,365 \div 4$ <br> Multiplication Fact <br> $4 \times$| 841 |
| :--- | <br> Compatible Numbers <br> $3,200 \div 4$ <br> Estimated Quotient 800}

## $1,588 \div 8$ <br> Multiplication Fact <br> $8 \times \underset{r 5}{198}=1,588$ <br> Compatible Numbers <br> $1,600 \div 8$ <br> Estimated Quotient 200

## $1,740 \div 2$ <br> Multiplication Fact <br> $\underline{2} \times \underline{870}=\underline{1,740}$ <br> Compatible Numbers <br> $1,700 \div 2$ <br> Estimated Quotient 850

## $2,650 \div 3$ <br> Multiplication Fact <br> $3 \times \underset{r 3}{883}=\underline{2,650}$ <br> Compatible Numbers <br> $\underline{2,700} \div 3$ <br> Estimated Quotient 900

## $5,012 \div 6$ <br> Multiplication Fact <br> $6 \times \begin{array}{r}835 \\ \hline 633\end{array}=\underline{5,012}$ <br> Compatible Numbers $4,800 \div 6$ <br> Estimated Quotient 800

## $5,312 \div 7$ <br> Multiplication Fact <br> $$
7 \times \begin{aligned} & 758 \\ & \hline \end{aligned}
$$ <br> Compatible Numbers <br> $$
5,600 \div 7
$$ <br> Estimated Quotient 800

## $3,190 \div 5$ <br> Multiplication Fact <br> $5 \times 638=3,190$ <br> Compatible Numbers <br> $3,200 \div 5$ <br> Estimated Quotient 640



642

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Dividing by One-Digit Cards

## 1,2 <br> 

184

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654

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752

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784

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752

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## 

965

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## 438

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874

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234

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## 677 r38

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## 2,135 r5

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## 790 r63

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## 1,115 r2

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## 337 r5

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## 643 r2

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Dividing by One-Digit Cards

## What is the greatest number of groups of 21 you can make from 113 ?

## 5 groups

## What is the greatest number of groups of 19 you can make from 159?

## 8 groups

## What is the greatest number of groups of 46 you can make from 345 ?

## 7 groups

## What is the greatest number of groups of 25 you can make from 105?

4 groups

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## What is the greatest number of groups of 34 you can make from 83 ?

## 2 groups

## What is the greatest number of groups of 59 you can make from 84 ?

## 1 group

# What is the greatest number of groups of 13 you can make from 52? 

## 4 groups

# What is the greatest number of groups of 78 you can make from 327 ? 

## 4 groups

## What is the greatest number of groups of 63 you can make from $529 ?$

## 88 groups

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# What is the greatest number of groups of 65 you can make from 546 ? 

## 8 groups

## What is the greatest number of groups of 27 you can make from 86 ?

## 3 groups

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# What is the greatest number of groups of 22 you can make from 64? 

## 2 groups

## $1,130 \div 21$

## 53 r81

## 1,5 ,596 <br> 

84

## $3,458 \div 46$

## 75 r17

## 1, <br> ,050 <br> 

42

# $830 \div 34$ 

## 24 r41

## $8,480 \div 59$

## 143 r73

# 520 <br>  <br> <br> 13 

 <br> <br> 13}

## 40

## $3,276 \div 78$

42


84

## $5,465 \div 65$

## 84 r1

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Dividing by Two-Digit Cards

## 864 <br> 

32


## 291

Nathan earns \$624 in one year for walking his neighbor's dog. He is paid the same amount each week. There are 52 weeks in one year. How much is Nathan paid each week?
\$12 each week

# Adi read for 2,100 minutes in the month of September. How many hours did Adi read? (There are 60 minutes in 1 hour.) 

35 hours

# The school play earned $\$ 3,192$ from ticket sales. The cost of each ticket was \$7. How many tickets were sold? 

456 tickets

## The 5th grade class took a train ride.

 The cost for each student was \$13. If the total cost of the students' tickets was $\$ 2,418$, how many students rode the train?186 students

# A group of students measured the 

 length of the school cafeteria in inches. The length was 1,044 inches. There are 36 inches in 1 yard. How many yards long is the cafeteria?29 yards

# Karina's family wants to save $\$ 10,000$ 

 for a used car. Each week they put $\$ 150$ in an account to save for the car. How many weeks will it take to save \$10,000?67 weeks

# A ferry can transport 54 people 

 at a time. How many trips would the ferry need to take to transport 2,308 people?43 trips

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# For Field Day, students are being 

 put on teams of 14 each. If there are 827 students in the school, how many teams will there be?60 teams

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Dividing Tenths Cards, Set 1


## 0.2



## 0.3

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Dividing Tenths Cards, Set 1

0.2

Dividing Tenths Cards, Set 1


## 0.7

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Dividing Tenths Cards, Set 1


## 0.6

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Dividing Tenths Cards, Set 1

0.3


## 0.8


0.8

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## 0.8


0.8

0.3

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Dividing Tenths Cards, Set 2


## 3.1

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Dividing Tenths Cards, Set 3


### 0.45

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## 2.5

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1.3

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Dividing Tenths Cards, Set 3


## 2.6

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Dividing Tenths Cards, Set 3


## 0.2

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Dividing Tenths Cards, Set 3

### 0.42 <br>  <br> 7

### 0.06

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## 0. <br> 

### 0.06

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Dividing Hundredths Cards, Set 1

## $0.54 \div 9$

### 0.06

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Dividing Hundredths Cards, Set 1

## $0.45 \div 5$ <br> 0.09

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Dividing Hundredths Cards, Set 1


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# $0.24 \div 6$ <br> 0.04 

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Dividing Hundredths Cards, Set 1


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# $0.64 \div 2$ <br> 0.32 

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Dividing Hundredths Cards, Set 2

## $0.85 \div 5$

0.17

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Dividing Hundredths Cards, Set 2

## $0.64 \div 4$ <br> 0.16

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Dividing Hundredths Cards, Set 2
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0.04

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Dividing Hundredths Cards, Set 2
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Dividing Hundredths Cards, Set 2
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### 0.05

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Dividing Hundredths Cards, Set 3


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## $0.26 \div 5$ <br> 0.052

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Dividing Hundredths Cards, Set 3

[^0]

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## $0.48 \div 10$

### 0.048

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Dividing Hundredths Cards, Set 3


### 0.0575



## 0.5



## 5



## 50

## $2.5 \div 0.005$

## 500

## $33.6 \div 0.8=42.0$

## $12.88 \div 2.3=5.6$

## $44.1 \div 1.8=24.5$

## $0.84 \div 0.06=14.0$

## $22.26 \div 5.3$

## 4.2

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Decimal Division Cards, Set 1

## $2.88 \div 1.6$ <br> 1.8

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Decimal Division Cards, Set 1

## $9.46 \div 0.22$

## 43

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Decimal Division Cards, Set 1

## $61.5 \div 0.5$

## 123

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Decimal Division Cards, Set 1

## $0.44 \div 0.2$

## 2.2

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Decimal Division Cards, Set 1

## $1.75 \div 0.5$

## 3.5

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Decimal Division Cards, Set 1

### 0.092 <br>  <br> 0.023

## 4

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Decimal Division Cards, Set 2

## $0.8 \div 0.25$

## 3.2

## $0.24 \div 0.5$

### 0.48

## $46.08 \div 9.6$

## 4.8

## $14.58 \div 2.7$

## 5.4

## $0.108 \div 0.02$

## 5.4



## 261

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More Decimal Division Cards, Set 1

## $0.24 \div 0.008$

## 30

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More Decimal Division Cards, Set 1

# 0.345 $\div$ <br>  

2.3

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More Decimal Division Cards, Set 1

## $0.297 \div 0.9$

### 0.33

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More Decimal Division Cards, Set 1


72

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More Decimal Division Cards, Set 1

## $30.24 \div 0.6$

50.4

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More Decimal Division Cards, Set 1


## 4.7

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More Decimal Division Cards, Set 2

## $0.184 \div 0.8$

### 0.23

# 7.29 <br>  

## 24.3

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More Decimal Division Cards, Set 2

## $19.05 \div 0.5$

## 38.1

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More Decimal Division Cards, Set 2

## $0.352 \div 0.4$

### 0.88

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More Decimal Division Cards, Set 2

## $3.234 \div 4.2$

0.77

Grade 5 • Unit 3 • Lesson 16
More Decimal Division Cards, Set 2

[^1]
## MONEY PROBLEMS

Zari and 3 of her friends earned $\$ 1,440$ mowing lawns over the summer. If they split the money evenly, how much did each person receive?

## \$360

Zari and her 3 friends also paid a total of $\$ 19.72$ for gasoline for the lawnmower. If they split the cost of the gasoline evenly, how much did each person pay? \$4.93

# Including tax, the cost of renting a canoe is $\$ 7.92$. Tavon and 2 friends split the cost evenly. How much does each friend pay? 

\$2.64

The local pet store sells gravel for fishbowls. The cost is $\$ 0.80$ per pound. Jai scooped some of the gravel into a bag. After weighing it, the cashier said it cost $\$ 3.36$. How many pounds of gravel did Jai scoop into the bag?
4.2 pounds

# A square garden has a perimeter of 25.6 feet. What is the length of each side? 

## 6.4 feet

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# Each ticket for the school Fun Fair is $\$ 0.15$. How many tickets can be purchased for $\$ 5.25$ ? 

## 35 tickets

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# Sofia and her 2 brothers received 

 $\$ 24.51$ for the books that they traded in at the used book store. They split the money evenly among them. How much does each person receive?\$8.17

A spice shop buys spices in bulk and puts them into small bags to sell. They buy 21 pounds of chili powder and put it in bags so that there is 0.42 pound of chili powder in each bag. How many bags of chili powder do they make?

50 bags

# A soccer coach fills a large cooler with 

 187.5 ounces of water. The players evenly divide the water into 15 water bottles. How much water is in each water bottle?12.5 ounces of water

# How many 0.45 -inch pieces of ribbon can be cut from a piece of ribbon that is 3.15 inches long? 

7 pieces of ribbon

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## Complete each equation.

$$
\begin{aligned}
& 45 \div 9=\frac{5}{50} \\
& 450 \div 9=\underline{50} \\
& 4,500 \div 9=\frac{500}{5} \\
& 450 \div 90=\boxed{50} \\
& 4,500 \div 90=50
\end{aligned}
$$

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The Base Ten Blocks shown represent the number 3.2. Explain how you could use the blocks to find the answer to $3.2 \div 4$.


## Sample answer:

You could shade the blocks evenly into 4 groups to find the answer.

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# Use an area model to show how to divide $1,524 \div 6$. 

## 254

Which expression would you use to help you estimate the solution to $2,369 \div 8$ ?
A. $2,000 \div 8$
B. $2,000 \div 10$
C. $2,500 \div 5$
D. $2,400 \div 8$

Explain your choice.

## Sample answer:

2,369 rounds up to 2,400 . I know that 24 is divisible by 8 , which would help me estimate the solution.

## Complete the strip diagram.



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Divide. Use an area model, partial sums, or the standard algorithm. Show your work.

## $2,015 \div 5$

403

Divide. Use an area model, partial sums, or the standard algorithm. Show your work.

## $3,596 \div 62$

## 58

## Use the model to show how to find the

 quotient $0.54 \div 3$.

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The cost of 3 pounds of zucchini at the farmers' market was $\$ 1.44$. The cost of 5.2 pounds of zucchini at the grocery store was $\$ 2.08$. Is the price for 1 pound of zucchini higher at the farmers' market or at the grocery store? Explain.

Sample answer:
The cost of zucchini is higher at the farmer's market. It costs $\$ 0.48$ per pound. At the grocery store, it costs $\$ 0.40$ per pound.

Reyna has a piece of rope that is 3.2 meters long.

How long would each piece be if Reyna cut the rope into 2 equal pieces?

## 1.6 meters long

How many 0.4-meter pieces could be made from the 3.2-meter piece of rope?

8 pieces

The total weight of 5 identical bags of flour is 6,500 grams. What is the weight of each bag of flour?

## 1,300 grams

# Write a division problem with a 4-digit dividend that won't have a remainder. 

$$
1,000 \div 25=40
$$


[^0]:    © Reagan Tunstall

[^1]:    © Reagan Tunstall

