Name _____

Multiply by 1-Digit Numbers

COMMON CORE STANDARD CC.5.NBT.5

Perform operations with multi-digit whole numbers and with decimals to hundredths.

Estimate. Then find the product.

1. Estimate: 3,600

$$\begin{array}{r} {\scriptstyle 1\ 5} \\ 416 \\ \times\ \ 9 \\ \hline 3{,}744 \end{array}$$

2. Estimate: _____

$$\begin{array}{r} 1{,}374 \\ \times\ \ 6 \\ \hline \end{array}$$

3. Estimate: _____

$$\begin{array}{r} 726 \\ \times\ \ 5 \\ \hline \end{array}$$

4. Estimate: _____

$$\begin{array}{r} 872 \\ \times\ \ 3 \\ \hline \end{array}$$

5. Estimate: _____

$$\begin{array}{r} 2{,}308 \\ \times\ \ 9 \\ \hline \end{array}$$

6. Estimate: _____

$$\begin{array}{r} 1{,}564 \\ \times\ \ 5 \\ \hline \end{array}$$

Estimate. Then find the product.

7. 4×979

8. 503×7

9. $5 \times 4{,}257$

10. $6{,}018 \times 9$

11. 758×6

12. 3×697

13. $2{,}141 \times 8$

14. $7 \times 7{,}956$

Problem Solving REAL WORLD

15. Mr. and Mrs. Dorsey and their three children are flying to Springfield. The cost of each ticket is $179. Estimate how much the tickets will cost. Then find the exact cost of the tickets.

16. Ms. Tao flies roundtrip twice yearly between Jacksonville and Los Angeles on business. The distance between the two cities is 2,150 miles. Estimate the distance she flies for both trips. Then find the exact distance.

Name _____

Relate Multiplication to Division

COMMON CORE STANDARD CC.5.NBT.6

Perform operations with multi-digit whole numbers and with decimals to hundredths.

Use multiplication and the Distributive Property to find the quotient.

1. $70 \div 5 =$ 14

$(5 \times 10) + (5 \times 4) = 70$

$5 \times 14 = 70$

2. $96 \div 6 =$ _____

3. $85 \div 5 =$ _____

4. $84 \div 6 =$ _____

5. $168 \div 7 =$ _____

6. $104 \div 4 =$ _____

7. $171 \div 9 =$ _____

8. $102 \div 6 =$ _____

9. $210 \div 5 =$ _____

Problem Solving REAL WORLD

10. Ken is making gift bags for a party. He has 64 colored pens and wants to put the same number in each bag. How many bags will Ken make if he puts 4 pens in each bag?

_____

11. Maritza is buying wheels for her skateboard shop. She ordered a total of 92 wheels. If wheels come in packages of 4, how many packages will she receive?

_____

Name _____

Problem Solving • Multiplication and Division

PROBLEM SOLVING
Lesson 1.9

COMMON CORE STANDARD CC.5.NBT.6

Perform operations with multi-digit whole numbers and with decimals to hundredths.

Solve the problems below. Show your work.

1. Dani is making punch for a family picnic. She adds 16 fluid ounces of orange juice, 16 fluid ounces of lemon juice, and 8 fluid ounces of lime juice to 64 fluid ounces of water. How many 8-ounce glasses of punch can she fill?

$16 + 16 + 8 + 64 = 104$ fluid ounces

$$104 \div 8 = (40 + 64) \div 8$$
$$= (40 \div 8) + (64 \div 8)$$
$$= 5 + 8, \text{ or } 13$$

13 glasses

2. Ryan has nine 14-ounce bags of popcorn to repackage and sell at the school fair. A small bag holds 3 ounces. How many small bags can he make?

_____

3. Bianca is making scarves to sell. She has 33 pieces of blue fabric, 37 pieces of green fabric, and 41 pieces of red fabric. Suppose Bianca uses 3 pieces of fabric to make 1 scarf. How many scarves can she make?

_____

4. Jasmine has 8 packs of candle wax to make scented candles. Each pack contains 14 ounces of wax. Jasmine uses 7 ounces of wax to make one candle. How many candles can she make?

_____

5. Maurice puts 130 trading cards in protector sheets. He fills 7 sheets and puts the remaining 4 cards in an eighth sheet. Each of the filled sheets has the same number of cards. How many cards are in each filled sheet?

_____

Name _____

Place the First Digit

COMMON CORE STANDARD CC.5.NBT.6

Perform operations with multi-digit whole numbers and with decimals to hundredths.

Divide.

1. $4\overline{)388}$

$$\begin{array}{r} 97 \\ 4\overline{)\,388} \\ -36 \\ \hline 28 \\ -28 \\ \hline 0 \end{array}$$

97

2. $4\overline{)457}$

3. $8\overline{)712}$

4. $9\overline{)204}$

5. $2{,}117 \div 3$

6. $520 \div 8$

7. $1{,}812 \div 4$

8. $3{,}476 \div 6$

Problem Solving REAL WORLD

9. The school theater department made $2,142 on ticket sales for the three nights of their play. The department sold the same number of tickets each night and each ticket cost $7. How many tickets did the theater department sell each night?

10. Andreus made $625 mowing yards. He worked for 5 consecutive days and earned the same amount of money each day. How much money did Andreus earn per day?

Name _____

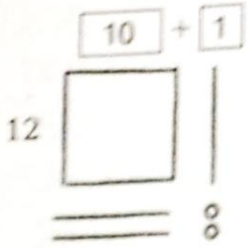
Division with 2-Digit Divisors

COMMON CORE STANDARD CC.5.NBT.6

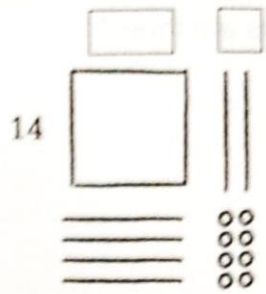
Perform operations with multi-digit whole numbers and with decimals to hundredths.

Use the quick picture to divide.

1. $132 \div 12 =$ 11



2. $168 \div 14 =$ _____



Divide. Use base-ten blocks.

3. $195 \div 13 =$ _____

4. $143 \div 11 =$ _____

5. $165 \div 15 =$ _____

Divide. Draw a quick picture.

6. $192 \div 16 =$ _____

7. $169 \div 13 =$ _____

Problem Solving REAL WORLD

8. There are 182 seats in a theater. The seats are evenly divided into 13 rows. How many seats are in each row?

9. There are 156 students at summer camp. The camp has 13 cabins. An equal number of students sleep in each cabin. How many students sleep in each cabin?

Name _____

Partial Quotients

COMMON CORE STANDARD CC.5.NBT.6

Perform operations with multi-digit whole numbers and with decimals to hundredths.

Divide. Use partial quotients.

1. $18\overline{)236}$

$18\overline{)236}$

-180	$\leftarrow 10 \times 18$	10
56		
-36	$\leftarrow 2 \times 18$	2
20		
-18	$\leftarrow 1 \times 18$	$+ 1$
2		13

$236 \div 18$ is 13 r2.

2. $36\overline{)540}$

3. $27\overline{)624}$

4. $478 \div 16$

5. $418 \div 22$

6. $625 \div 25$

7. $514 \div 28$

8. $322 \div 14$

9. $715 \div 25$

Problem Solving REAL WORLD

10. A factory processes 1,560 ounces of olive oil per hour. The oil is packaged into 24-ounce bottles. How many bottles does the factory fill in one hour?

_____

11. A pond at a hotel holds 4,290 gallons of water. The groundskeeper drains the pond at a rate of 78 gallons of water per hour. How long will it take to drain the pond?

_____

Name _____

Estimate with 2-Digit Divisors

COMMON CORE STANDARD CC.5.NBT.6

Perform operations with multi-digit whole numbers and with decimals to hundredths.

Use compatible numbers to find two estimates.

1. $18\overline{)1,322}$

$1,200 \div 20 = 60$

$1,400 \div 20 = 70$

2. $17\overline{)1,569}$

3. $27\overline{)735}$

4. $12\overline{)478}$

5. $336 \div 12$

6. $1,418 \div 22$

7. $16\overline{)2,028}$

8. $2,242 \div 33$

Use compatible numbers to estimate the quotient.

9. $82\overline{)5,514}$

10. $61\overline{)5,320}$

11. $28\overline{)776}$

12. $23\overline{)1,624}$

Problem Solving REAL WORLD

13. A cubic yard of topsoil weighs 4,128 pounds. About how many 50-pound bags of topsoil can you fill with one cubic yard of topsoil?

_____

14. An electronics store places an order for 2,665 USB flash drives. One shipping box holds 36 flash drives. About how many boxes will it take to hold all the flash drives?

_____

Name _____

Divide by 2-Digit Divisors

COMMON CORE STANDARD CC.5.NBT.6

Perform operations with multi-digit whole numbers and with decimals to hundredths.

Divide. Check your answer.

1. $385 \div 12$

$$\begin{array}{r} 32 \text{ r}1 \\ 12\overline{)385} \\ -36 \\ \hline 25 \\ -24 \\ \hline 1 \end{array}$$

2. $837 \div 36$

3. $1{,}650 \div 55$

4. $5{,}634 \div 18$

5. $7{,}231 \div 24$

6. $5{,}309 \div 43$

7. $37\overline{)3{,}774}$

8. $54\overline{)1{,}099}$

9. $28\overline{)6{,}440}$

10. $52\overline{)5{,}256}$

11. $85\overline{)1{,}955}$

12. $46\overline{)5{,}624}$

Problem Solving REAL WORLD

13. The factory workers make 756 machine parts in 36 hours. Suppose the workers make the same number of machine parts each hour. How many machine parts do they make each hour?

_____

14. One bag holds 12 bolts. Several bags filled with bolts are packed into a box and shipped to the factory. The box contains a total of 2,760 bolts. How many bags of bolts are in the box?

_____

Name _____

Interpret the Remainder

COMMON CORE STANDARD CC.5.NF.3

Apply and extend previous understandings of multiplication and division to multiply and divide fractions.

Interpret the remainder to solve.

1. Warren spent 140 hours making 16 wooden toy trucks for a craft fair. If he spent the same amount of time making each truck, how many hours did he spend making each truck?

$$\begin{array}{r} 8 \\ 16\overline{)140} \\ -128 \\ \hline 12 \end{array}$$

$8\frac{3}{4}$ hours

2. Marcia has 412 bouquets of flowers for centerpieces. She uses 8 flowers for each centerpiece. How many centerpieces can she make?

3. On the 5th grade class picnic, 50 students share 75 sandwiches equally. How many sandwiches does each student get?

4. One plant container holds 14 tomato seedlings. If you have 1,113 seedlings, how many containers do you need to hold all the seedlings?

Problem Solving REAL WORLD

5. Fiona bought 212 stickers to make a sticker book. If she places 18 stickers on each page, how many pages will her sticker book have?

6. Jenny has 220 ounces of cleaning solution that she wants to divide equally among 12 large containers. How much cleaning solution should she put in each container?

Chapter 2 Extra Practice

Lessons 2.1 - 2.2

Divide.

1. $8\overline{)346}$

2. $6\overline{)1,914}$

3. $8\overline{)1,898}$

4. $4\overline{)952}$

5. $3,629 \div 9$

6. $2,961 \div 7$

7. $3\overline{)4,276}$

8. $6\overline{)3,251}$

9. $1,664 \div 5$

Lessons 2.3 - 2.6

Estimate. Then divide.

1. $19\overline{)1,425}$

2. $2,384 \div 23$

3. $378 \div 56$

Lesson 2.7

Interpret the remainder to solve.

1. Matthew is packing 195 glasses into cartons. Each carton can hold 18 glasses. How many cartons does Matthew need?

2. Julia wants to make 8 bows using 18 feet of ribbon. She wants to use an equal length of ribbon for each bow with no ribbon left over. How many feet of ribbon can she use for each bow?

Lesson 2.8

Divide.

1. $32\overline{)549}$

2. $1{,}296 \div 36$

3. $588 \div 84$

4. $12\overline{)320}$

5. $53\overline{)6{,}681}$

6. $6{,}370 \div 29$

Lesson 2.9

Solve.

1. Greenboro gets 12 times as many inches of snow as Redville gets. Altogether, the two towns get 65 inches of snow. How many inches of snow does Redville get?

2. In one month, Ansley runs 15 times as many miles as Zack runs. Altogether, they run 192 miles. How many miles does Ansley run in one month?