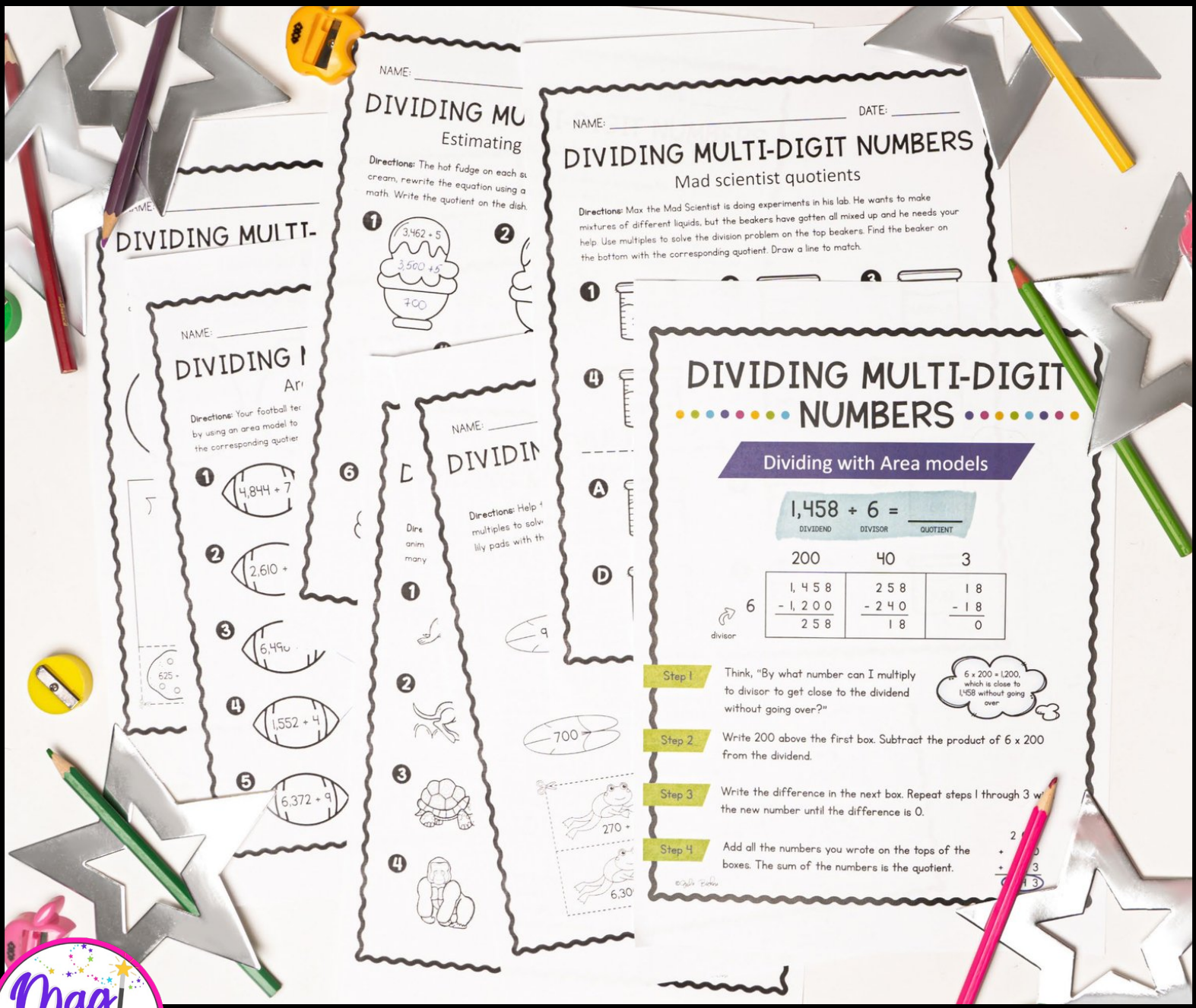
DIVIDING
MULTI-DIGIT NUMBERS

4th Grade



Printable & Google Slides

NAME: _____ DATE: _____

DIVIDING MULTI-DIGIT NUMBERS

Mad scientist quotients

Directions: Max the Mad Scientist is doing experiments in his lab. He wants to make mixtures of different liquids, but the beakers have gotten all mixed up and he needs your help. Use multiples to solve the division problem on the top beakers. Find the beaker on the bottom with the corresponding quotient. Draw a line to match.

1. 350 ÷ 5

NAME: _____

DIVIDING MULT

Estimating ice

Directions: The hot fudge on each cream, rewrite the equ math. Write th

NAME: _____

DIVIDING MULTI-DIGIT NU

Area model touchdown

Directions: Your football team just scored a touchdown! Score an extra by using an area model to solve the division equation on each football. Fi the corresponding quotient. Draw a line to match the football to the go

1. 4,844 ÷ 7
2. 2,610 ÷ 6
3. 6,496 ÷ 8
4. 1,552 ÷ 4
5. 6,372 ÷ 9

A
B
C
D
E

NAME: _____

DIVIDING MULT

Lily p

Directions: Help the frogs in Div multiples to solve each divisio lily pads with the correspc

DIVIDING MULTI-DIGIT NUMBERS

Dividing with Area models

1,458 ÷ 6 = _____

DIVIDEND ÷ DIVISOR = QUOTIENT

	200	40	3
6 (divisor)	1,458 - 1,200 258	258 - 240 18	18 - 18 0

Step 1 Think, "By what number can I multiply to divisor to get close to the dividend without going over?"

6 x 200 = 1,200, which is close to 1,458 without going over

Step 2 Write 200 above the first box. Subtract the product of 6 x 200 from the dividend.

Step 3 Write the difference in the next box. Repeat steps 1 through 3 wi the new number until the difference is 0.

Step 4 Add all the numbers you wrote on the tops of the boxes. The sum of the numbers the quotient.

©Deb Barber

951

6,657 ÷ 7

625 ÷ 5

1,456 ÷ 4

270 ÷ 3

4,000 ÷ 5

6,300 ÷ 9

4,000 ÷ 8

DIVIDING MULTI-DIGIT NUMBERS

partial quotients

3,934 ÷ 7 = ____
DIVIDEND DIVISOR QUOTIENT

Step 1 Think, "By what number can I multiply the divisor to get close to the dividend without going over?" Start by thinking in multiples of 10 & 100.

Step 2 Subtract the product from step 1 from the dividend.

Step 3 Repeat until the difference is 0.

Step 4 Find the sum of all the partial quotients. This is your final quotient.

		partial quotients
7 | 3, 9 3 4		
- 3, 5 0 0	7 x 500	
4 3 4		
- 4 2 0	7 x 60	
1 4		
- 1 4	7 x 2	
0		

500 + 60 + 2 = 562

©Ash Parker

DIVIDING MULTI-DIGIT NUMBERS

Lily pad quotients

NAME: DATE:

Directions: Help the frogs in Division Pond find their way to their lily pads. Use multiples to solve each division problem. Cut out the frogs and glue them onto the lily pads with the corresponding quotient.

270 ÷ 3
4,000 ÷ 5
800
280 ÷ 4
70
4,000 ÷ 8
500
360 ÷ 9
40
6,300 ÷ 9

DIVIDING MULTI-DIGIT NUMBERS

Area model touchd

NAME:

Directions: Your football team just scored a touchdown! Sc
by using an area model to solve the division equation on ea
the corresponding quotient. Draw a line to match the foot

1 944 ÷ 7

DIVIDING MULTI-DIGIT NUMBERS

Cookie jar Long division

NAME: DATE:

Directions: Use long division to solve the division problem on each cookie. Cut out the cookies and paste into the cookie jar with the correct quotient.

951
5,706 ÷ 6
6,657 ÷ 7
125
625 ÷ 5
125 ÷ 1
364
2,912 ÷ 8
455 ÷ 7

350 ÷ 5 D
2,100 ÷ 7 F
8,100 ÷ 9 A
240 ÷ 4 C

A 900
B 600
D
E 90


DIVIDING MULTI-DIGIT NUMBERS
mad scientist quotients
Directions: Max the Mad Scientist is doing experiments in his lab. He wants to make mixtures of different liquids, but the beakers have gotten all mixed up and he needs your help. Use multiples to solve the division problem on the top beakers. Drag the beaker with the corresponding quotient to the beaker with the division problem.
1 350 ÷ 5
2 2,100 ÷ 7
3 4,800 ÷ 8
4 8,100 ÷ 9
5 240 ÷ 4
6 180 ÷ 2
600
70
900
60
300
90
360 ÷ 9
4,000 ÷ 5
4,000 ÷ 8
6,300 ÷ 9
270 ÷ 3
5,706 ÷ 6
625
2,912 ÷ 8
1,456 ÷ 4
6,657 ÷ 7
NAME:
DIVIDING
Estim
Directions: The hot fud
cream, rewrite the ec
math. Write the quot
3,462 ÷ 5
3,500
NAME:
DIVIDING MULTI-D
Cookie jar Long
Directions: Use long division to solve the division pr
cookies and paste into the
NAME:
VID
Help
sol
90
DIVIDING M
NUME
Dividing with
1,458 ÷ 6
DIVIDEND
DATE:
DING MULTI-DIGIT NUMBER
Zookeeper estimati
The zookeepers at Division Zoo need to estimate
e zookeepers know the total weight of all the a
als are in each exhibit. Use the information to e
Animal: Pacific Walrus
in Exhibit: 4
Total Weight: 8,291 lbs.
Est. Weight per Animal: 2
Animal: Red Kangaroo
in Exhibit: 6
Total Weight: 635 lbs.
Est. Weight per Anim
Animal: Galapagos T
in Exhibit: 7
Total Weight: 2,66
Est. Weight per A
Animal: Eastern
in Exhibit: 8
Total Weight:
Est. Weight p
NAME:
DIVIDIN
Directions: Your footbal
by using an area model
the corresponding quoti
1 4,844 ÷ 7
2 2,610 ÷ 6
3 6,496 ÷ 8
4 1,552 ÷ 4

NAME: _____

DIVIDING MULTI-DIGIT NUMBERS

Cookie jar Long division

DATE: _____

Directions: Use long division to solve the division problem on each cookie. Cut out the cookies and paste into the cookie jar with the correct quotient.





DIVIDING MULTI-DIGIT NUMBERS

Dividing with Area models

1,458 ÷ 6 = _____
DIVIDEND DIVISOR QUOTIENT

	200	40	3
6 (divisor)	1,458 - 1,200 258	258 - 240 18	1 - 1

Step 1 Think, "By what number can I multiply to divisor to get close to the dividend without going over?"

Step 2 Write 200 above the first box. Subtract the proc from the dividend.

Step 3 the difference in the next box. Repeat step number until the difference is 0.

Step 4 Add mbers you wrote on the tops of th boxes. Th f the numbers is the quotient.



NAME: _____ DATE: _____

DIVIDING MUL TI DIGIT NUMBERS

Zookee

Directions: The zookeepers at Division 2 animals. The zookeepers know the total many animals are in each exhibit. Use th

1. 
Animal: Pacif
in Exhibit: 4
Total Weight:
Est. Weight p

2. 
Animal: Red K
in Exhibit: 6
Total Weight:
Est. Weight p

3. 
Animal: Galapc
in Exhibit: 7
Total Weight: 2
Est. Weight pe

4. 
Animal: Easter
in Exhibit: 8
Total Weight: 3
Est. Weight per

NAME: _____ D

DIVIDING MULTI-DIGIT N

Area model touchdown

Directions: Your football team just scored a touchdown! Score an extr by using an area model to solve the division equation on each football. the corresponding quotient. Draw a line to match the football to the g

1. 4,844 ÷ 7
2. 2,610 ÷ 6
3. 6,496 ÷ 8
4. 1,552 ÷ 4

A
B
C
D

NAME: _____

DIVIDING MULTI-DIGIT NUMBERS

Cookie jar Long division

DATE: _____

Directions: Use long division to solve the division problem on each cookie. Cut out the cookies and paste into the cookie jar with the correct quotient.

951

125

DIVIDING MULTI-DIGIT NUMBERS

Div

divisor

Step 1

Step 2

Step 3

Step 4

DIVIDING MULTI-DIGIT NUMBERS

zookeeper estimation

Directions: The zookeepers at Division Zoo need to estimate the weight of each of their animals. The zookeepers know the total weight of all the animals in each exhibit and how many animals are in each exhibit. Use the information to estimate the weight of each animal.

5

Animal: Andean Condor
in Exhibit: 9
Total Weight: 288 lbs.
Est. Weight per Animal: _____

SHOW YOUR WORK

6

Animal: Plains Zebra
in Exhibit: 6
Total Weight: 4,903 lbs.
Est. Weight per Animal: _____

SHOW YOUR WORK

©Julie Bolduc

Area model touch

DATE: _____

1 4,844 ÷ 7

2 2,610 ÷ 6

3 6,496 ÷ 8

4 1,552 ÷ 4

800

40

90

500

DIVIDING MULTI-DIGIT NUMBERS

4th grade

Table of Contents

1. Anchor Charts (5 pages)
2. Dividing Multiples of 10 and 100 (6 pages)
3. Estimating Quotients (10 pages)
4. Area Models (10 pages)
5. Partial Quotients (10 pages)
6. Long Division (14 pages)
7. Division Games & Activities (17 pages)
8. Word Problems (8 pages)
9. Test Review (5 pages)
10. Test (5 pages)



THANK YOU FOR PURCHASING THIS MAGICORE LEARNING DIGITAL RESOURCE!

The Google Slides version of this resource requires that you make a copy of the resource to your own Google Drive.

CLICK HERE TO MAKE A COPY OF THIS RESOURCE TO YOUR GOOGLE DRIVE.

* You MUST have a Google account in order to access this resource. Click HERE if you need help setting up a Google account.

DIVIDING MULTI-DIGIT NUMBERS

dividing multiples of 10 & 100

$$540 \div 9 = \underline{\quad}$$

DIVIDEND DIVISOR QUOTIENT

Step 1 Identify a multiple of the divisor within the dividend.

$540 \div 9$

Step 2 Cover up the zeroes that come after the multiple.

$54 \square \div 9$

Step 3 Find the quotient.

$54 \div 9 = 6$

Step 4 Place the number of zeroes you covered up at the end of the quotient.

$540 \div 9 = 60$

©Julia Bochoso

DIVIDING MULTI-DIGIT NUMBERS

estimating quotients

$3{,}340 \div 8 = \underline{\quad}$

DIVIDEND DIVISOR QUOTIENT

Step 1

Create a compatible number within the dividend.

☆ A **compatible number** is a number within the dividend that you know is easily divisible by the divisor

$3{,}200 \div 8$

3,340 is close to 3,200. I know 32 is a multiple of 8.

Step 2

Use your strategies for dividing by multiples of 10 and 100 to find the quotient.

$3{,}200 \div 8$

$32\square \div 8 = 4$

$3{,}200 \div 8 = 400$

©Julia Bochoso

DIVIDING MULTI-DIGIT NUMBERS

dividing with area models

1,458 ÷ 6 = _____

DIVIDEND DIVISOR QUOTIENT

	200	40	3
6 (divisor)	1,458 - 1,200 258	258 - 240 18	18 - 18 0

Step 1 Think, "By what number can I multiply to divisor to get close to the dividend without going over?"

6 x 200 = 1,200, which is close to 1,458 without going over

Step 2 Write 200 above the first box. Subtract the product of 6 x 200 from the dividend.

Step 3 Write the difference in the next box. Repeat steps 1 through 3 with the new number until the difference is 0.

Step 4 Add all the numbers you wrote on the tops of the boxes. The sum of the numbers is the quotient.

```
  200
+  40
+   3
-----
  243
```

©Julie Bochoso

NAME: _____ DATE: _____

DIVIDING MULTI-DIGIT NUMBERS

dividing multiples of 10

Directions: Use multiples to find the quotients.

1. 270 ÷ 9 = _____
2. 360 ÷ 6 = _____
3. 450 ÷ 5 = _____
4. 160 ÷ 2 = _____
5. 420 ÷ 7 = _____
6. 810 ÷ 9 = _____
7. 720 ÷ 8 = _____
8. 350 ÷ 7 = _____
9. 210 ÷ 3 = _____
10. 160 ÷ 4 = _____
11. 120 ÷ 3 = _____
12. 240 ÷ 6 = _____
13. 500 ÷ 5 = _____
14. 640 ÷ 8 = _____
15. 280 ÷ 4 = _____
16. 480 ÷ 6 = _____

©Julia Bochoso

NAME: _____ DATE: _____

DIVIDING MULTI-DIGIT NUMBERS

dividing multiples of 100

Directions: Use multiples to find the quotients.

1. 3,200 ÷ 4 = _____
2. 2,400 ÷ 6 = _____
3. 2,000 ÷ 5 = _____
4. 3,500 ÷ 7 = _____
5. 3,600 ÷ 9 = _____
6. 1,200 ÷ 2 = _____
7. 1,500 ÷ 3 = _____
8. 2,000 ÷ 5 = _____
9. 2,700 ÷ 3 = _____
10. 5,600 ÷ 8 = _____
11. 5,400 ÷ 9 = _____
12. 1,400 ÷ 7 = _____
13. 1,600 ÷ 4 = _____
14. 2,800 ÷ 4 = _____
15. 6,000 ÷ 6 = _____
16. 4,000 ÷ 5 = _____

©Julia Bochoso

NAME: _____ DATE: _____

DIVIDING MULTI-DIGIT NUMBERS

dividing multiples of 10 & 100

Directions: Use multiples to find the quotients.

1. 4,200 ÷ 7 = _____
2. 1,000 ÷ 5 = _____
3. 3,200 ÷ 8 = _____
4. 250 ÷ 5 = _____
5. 140 ÷ 2 = _____
6. 1,500 ÷ 3 = _____
7. 270 ÷ 9 = _____
8. 630 ÷ 9 = _____
9. 4,800 ÷ 6 = _____
10. 8,100 ÷ 9 = _____
11. 180 ÷ 2 = _____
12. 1,600 ÷ 4 = _____
13. 240 ÷ 8 = _____
14. 2,100 ÷ 7 = _____
15. 400 ÷ 9 = _____
16. 5,400 ÷ 6 = _____

©Julia Bochoso

Terms of Use

How Can I Use This Resource?

Thank you for trusting MagiCore. Our mission is to create resources that support teachers and promote student success. Please note that this resource is licensed for use by a single teacher in a classroom setting. If you need to use this resource with more than one teacher and/or across multiple classrooms, additional licenses are available at a discount. You can purchase additional licenses by visiting your TPT "Purchases" page and then selecting "Download Additional Licenses" or by contacting me at julie@magicorelearning.com.



Good to Go

- Use this resource personally or with your own children.
- Use this resource in your own classroom with your students.
- Provide this resource to your students to use at your instruction.
- Print and/or copy for use in your own classroom.
- Provide printed pages to a substitute teacher with the sole purpose of instructing your students.
- Share with your students via a secure document portal or electronic learning platform that requires individual user verification and limits access to only the students in your own classroom (e.g. Google Classroom).
- Review this resource with others with the sole purpose of recommending it to others for purchase, provided you share one of the links below:

https://magicorelearning.com/

https://www.teacherspayteachers.com/Store/Magicore



Not O.K.

- Share with others to use personally.
- Share with others to use in another classroom.
- Print or copy any page(s) and distribute them to other teachers or other classrooms.
- Publish or host online in a manner where any of the material is accessible to anyone who is not a student in your own classroom., including but not limited to personal, classroom, or district websites that are accessible to the general public.
- Use this resource commercially (e.g. Outschool).
- Publish, sell, or otherwise distribute this product to anyone in manner inconsistent with these terms of use.

© Copyright 2020, 2022. All rights reserved. The unlicensed reproduction or distribution of this product is strictly prohibited. Permission is granted to the original purchaser or licensee to make copies to use with students and/or to assign to students digitally providing it is only available to students assigned directly to the purchaser. Using this product in any manner that makes it accessible to the general public is strictly forbidden. Commercial use, including but not limited to online or in person classes, is prohibited. Contact julie@magicorelearning.com for commercial licensing information. Sharing without permission or hosting online in a public manner is a violation of the Digital Millennium Copyright Act (DMCA). These terms may be updated at any time. You can see the most up to date Terms of Use at https://magicorelearning.com/terms-of-use.

Let's Connect!

www.magicorelearning.com

https://www.teacherspayteachers.com/Store/magicore

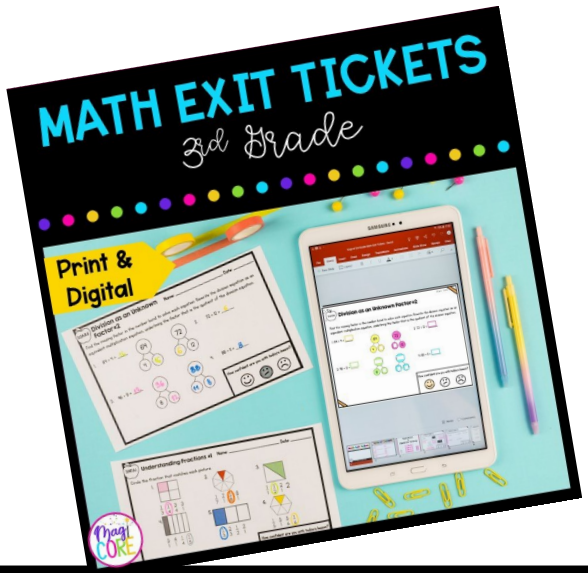
https://www.facebook.com/MagiCoreLearning

https://www.instagram.com/magicorelearning

https://www.pinterest.com/magicorelearning/_shop/

Julie@magicorelearning.com

Looking for more?





Membership Opportunity!

If you love these resources and want access to more, check out my membership opportunity with the MagiCore Club.

Join my MagiCore Club waitlist!

MagiCore Club opens its membership doors twice a year to offer teachers all the resources you love, with a membership discount. You can also find support through my custom learning plan.

Find out more
https://magicorelearning.com/membership



Credits