Name	Date	
	Dutt	

1. Estimate the quotient for the following problems. Round the divisor first.

	609 ÷ 21 ≈ 600 ÷ 20 = 30	b.	913÷29 ≈ 000 ÷ 30 = 30	c.	826÷37 ≈ 8∞ ÷ 40 = 20
*	141÷73 140÷70 = 2		241 ÷ 58 = 240 ÷ 60		482 ÷ 62 = 480 ÷ 60 = 8
	556 ÷ 81 		799÷99 ≈ 860 ÷ 100 = 8	l.	635 ÷ 95 ≈ <u>(e∞</u> ÷ <u>100</u> = <u>(</u>
*	311÷76 320 ÷ 80		648÷83 ≈ <u>640</u> ÷ <u>80</u> = <u>8</u>	l.	143÷35 ≈ 160 ÷ 40 = 4
*	525 ÷ 25 = 600 ÷ 30 = 20		552 ÷ 85 ≈ <u>560</u> ÷ <u>80</u> = <u>7</u>	0.	667 ÷ 11 ≈ 600 ÷ 10 = 6

2. A video game store has a budget of \$825, and would like to purchase new video games. If each video game costs \$41, estimate the total number of video games the store can purchase with its budget. Explain your thinking.

budget d 825

412,40

game

441

The store can buy about 20 games.

3. Jackson estimated $637 \div 78$ as $640 \div 80$. He reasoned that 64 tens divided by 8 tens should be 8 tens. Is Jackson's reasoning correct? If so, explain why. If not, explain a correct solution.

637-78 = 640:80=8

Jackson seems correct. His rounding is close enough to get acceptable numbers.

Name	Date
	Date

1. Estimate the quotient for the following problems. The first one is done for you.

a.	821 ÷ 41	b.	617 ÷ 23	c.	821 ÷ 39
	≈ 800 ÷ 40		600 ÷ 20		866 : 40
	= 20		= 36		= 40
d.	482 ÷ 52	e.	531 ÷ 48	f.	141 ÷ 73
	506 ÷ 50		500 ÷ 50	o yes	140 ÷ 70
	= 16		= 10		= 2
g.	476 ÷ 81	h.	645 ÷ 69	i.	599 ÷ 99
	500 ÷ 100		700 : 70		~ (00 ÷ 100
	=_5_		=_10_		= 6
j.	301 ÷ 26	k.	729 ÷ 81	I.	636 ÷ 25
	~300 ÷ 30		860 ± 80		660 ÷ 30
	=_10_		= 10		= 20
m.	835 ÷ 89	n.	345 ÷ 72	0.	559 ÷ 11
	900 + 90		350 ÷ 70		<u>600</u> : 10
	=		= 50		= 6

Name	lents. If all the bardies cost the same, about how much	Date

1. Estimate the quotient for the following problems. The first one is done for you.

a.	821 ÷ 41	b. 617 ÷ 23	c.	821 ÷ 39
	≈ 800 ÷ 40	600 ÷ 20		* 866 ÷ 40
	= 20	= 36		= 40
d.	482 ÷ 52	e. 531÷48	f.	141 ÷ 73
	506 ÷ 50	500 ÷ 50	o yte	~140 ÷ 70
	= 16	= 10		= 2
g.	476 ÷ 81	h. 645 ÷ 69	i.	599 ÷ 99
	500 ÷ 100	700 : 70	DA.	~ (00 ÷ 100
	= 5	= 10		= 6
j.	301 ÷ 26	k. 729 ÷ 81	1.	636 ÷ 25
	~360 ÷ 36	860 : 80	NA.	660 ÷ 36
	= 10	= 10		= 20
m.	835 ÷ 89	n. 345 ÷ 72	0.	559 ÷ 11
	966 : 90	350 ÷ 70		<u>600</u> ÷ 10
	= 10	= 50		= _6

2. Mrs. Johnson spent \$611 buying lunch for 78 students. If all the lunches cost the same, about how much did she spend on each lunch?

\$611 Mrs. Johnson 78 students

611:78 2 640:80 = 8

She would spend about \$8.00 per lunch.

3. An oil well produces 172 gallons of oil every day. A standard oil barrel holds 42 gallons of oil. About how many barrels of oil will the well produce in one day? Explain your thinking.

172 gallons daily 42 gallons a barrel

160: 422 160:40=5

42/172

Rounding down to 160 helps me to get an estimate closer to the exact quotients 160 is closer thaw 200.

Name	Date Date

 ${\bf 1.} \quad \hbox{Estimate the quotients for the following problems. The first one is done for you.}$

a.	5,738 ÷ 21	b.	2,659 ÷ 28	c.	9,155 ÷ 34
	≈ 6,000 ÷ 20		≈ 3,000 ÷ 30		= 9,000 ÷ 30
	= 300	1350	= 300		= 300
		nean		az h	
d.	1,463 ÷ 53	e.	2,525 ÷ 64	f.	2,271 ÷ 72
	≈ 1,500 ÷ 50		= 3,000 : 60	- 1	= 2,100 ÷ 70
	= 300		= 500		= 300
g.	4,901 ÷ 75	h.	8,515 ÷ 81	i.	8,515 ÷ 89
	= 5060 ÷ 100		= 9,000 ÷ 100		= 9,000 ÷ 90
	= 50		= 90		= 100
			60 = 5 × 0	1	
j.	3,925 ÷ 68	k.	5,124 ÷ 81	I.	4,945 ÷ 93
	= 4,000 ÷ 100		=5000 ÷ 100		≈5000 ÷ 100
	= 40		= 50		= 50
	- FIE'C! C#			15	1 Dave
m.	5,397 ÷ 94	n.	6,918 ÷ 86	0.	2,806 ÷ 15
	≈5900 ÷ 100		≈ 7,000 ÷ 100	34	= 3,000 ÷ 10
	= 50		= 70		= 300

 A swimming pool requires 672 width of the swimming pool. 	ft ² of floor space. The length of the swir	mming pool is 32 ft. Estimate the
672 ft ² floor	A=LXW	21
space space	672 fl2=32ftx w	32[672
32ft length	~ (de0 ÷ 30	64
he width would be 22	0:	-32
3. Janice bought 28 apps for her p	phone that, altogether, used 1,348 MB o	f space.
a. If each app used the same a	amount of space, about how many MB c	
Show how you estimated.	1 2116 : 76 A	48
Apps 28	1,348=282 1,500=30=	28/1/348
Space 1,348	11960-500-	110
	20	224
tach app uses	48 MB or about 50	MB 4
b. If half of the apps were free	e and the other half were \$1.99 each, ab	out how much did she spend?
50 apps	50-2-25	5005 tools
\$1.99 each	25 × 1.99	
	≈30×2 = 60	
Janke would	spend about \$60.	
4. A quart of paint covers about 8.	5 square feet. About how many quarts v	would you need to cover a fence
with an area of 3,817 square fe		× 44_
quarteovers	3,817:85	95 3,817
85 ft ²	\$4,000 ÷ 80	340
total area	N 56	4,17
2017612		370
5 Peggy has saved \$9.215 If she	is paid \$45 an hour, about how many ho	viceded "
		204
Saved	9,215-, 45	16/01/216
9 9,215	≈ 10,000 = 50	9015
paid	2 200	180
d 45 heur Sh	e worked about 200	hours 35
EUREKA Lesson 18:	Use basic facts to estimate quotients with two-digit di	ivisors.
MATH		

Name	Museuming each box has about the same number of	Date	
		Dutc	

 $1. \quad \text{Estimate the quotients for the following problems. The first one is done for you.} \\$

_			
a.	8,328 ÷ 41 ≈ 8,000 ÷ 40 = 200	b. 2,109 ÷ 23 ≈ 2000 ÷ 28 = 100	c. 8,215 ÷ 38 ≈ 8,000 ÷ 40 = 20
d.	3,861 ÷ 59 ≈ 3,606 ÷ 60 = 60	e. 2,899 ÷ 66 ≈ 3000 ÷ 60 = 50	f. 5,576÷92 ≈6,000 ÷ 100 = 60
g.	5,086 ÷ 73 ≈ 51000 ÷ 100 = 50	h. 8,432 ÷ 81 ≈ <u>8650</u> ÷ <u>80</u> = <u>\06</u>	i. 9,032 ÷ 89 ≈ 9,000 ÷ 90 = 100
j.	2,759 ÷ 48 ≈ 2500 ÷ 50 = 50	k. 8,194÷91 ≈ 9,000÷96 = 100	1. 4,368 ÷ 63 ≈ 4,200 ÷ 60 = 70
m.	6,537 ÷ 74 ≈ <u>6,300</u> ÷ <u>70</u> = <u>90</u>	n. 4,998÷48 ≈ 5 000÷ 50 = 100	o. 6,106 ÷ 25 ≈ 6000 ÷ 30 = 200

2. 91 boxes of apples hold a total of 2,605 apples. Assuming each box has about the same number of apples, estimate the number of apples in each box.

2,605

2,605 - 91 ≈ 3,000 = 100

It would be 30 apples by box

3. A wild tiger can eat up to 55 pounds of meat in a day. About how many days would it take for a tiger to eat the following prey?

Prey	Weight of Prey	Number of Days
Eland Antelope	1,754 pounds	34
Boar	661 pounds	-13
Chital Deer	183 pounds	4
Water Buffalo	2,322 pounds	46

1754:55 \$ 1700:50 \$34 661 ÷55 ≈ 650 ÷50 ≈ 13 183 ÷55 ≈ 200 ÷50 ≈ 4 2,322 ÷55 ≈ 2500 ÷50 ≈ 46

Name	STREET, GEIGLE LEURIN DWOLL OF STREET, CO. 10 1981

1. Divide, and then check. The first problem is done for you.

$$30 \times 1 = 30$$

 $30 + 11 = 41$

2. Terry says the solution to 299 ÷ 40 is 6 with a remainder of 59. His work is shown below. Explain Terry's error in thinking, and then find the correct quotient using the space on the right.

Terry has a remainder larger than the divisor. That is his mistake

3. A number divided by 80 has a quotient of 7 with 4 as a remainder. Find the number.

The number is 564

4. While swimming a 2 km race, Adam changes from breaststroke to butterfly every 200 m. How many times did he switch strokes during the first half of the race?

race

2 Km or 2000m

1000 = 200 = 5

change every

200 m

1st half of race

Divide two- and three-digit dividends by multiples of 10 with single-digit quotients and make connections to a written method. Name

- 1. Divide, and then check using multiplication. The first one is done for you.
 - a. 71 ÷ 20

Check:

 $20 \times 3 = 60$

60 + 11 = 71

b. 90 ÷ 40

40×2=80 80+10=90

c. 95 ÷ 60

60×1=60 60+35=95

d. 280 ÷ 30

30×9=270 270+10=280

e. 437 ÷ 60

60 x7 = 420 420+17=437

f. 346 ÷ 80

2. A number divided by 40 has a quotient of 6 with a remainder of 16. Find the number.

The number is 256

3. A shipment of 288 reams of paper was delivered. Each of the 30 classrooms received an equal share of the paper. Any extra reams of paper were stored. After the paper was distributed to the classrooms, how many reams of paper were stored?

reams 288

classrooms

30



There are 18 reams of paper stored

4. How many groups of sixty are in two hundred forty-four?

There are 4 groups of 60

2. A number divided by 40 has a quotient of 6 with a remainder of 16. Find the number.

N= 40=6R16

40×6=240 240+16=256

The number is 256

3. A shipment of 288 reams of paper was delivered. Each of the 30 classrooms received an equal share of the paper. Any extra reams of paper were stored. After the paper was distributed to the classrooms, how many reams of paper were stored?

reams 288

classyooms

30

There are 18 reams of paper stored

4. How many groups of sixty are in two hundred forty-four?

240

There are 4 groups of 60

Name

- 1. Divide. Then, check with multiplication. The first one is done for you.
 - a. 65 ÷ 17

$$17 \times 3 = 51$$

 $51 + 14 = 65$

c. 78 ÷ 39

d. 84 ÷ 32

$$\frac{2}{3284} = 2 \times 32 = 64$$

$$\frac{64}{20} = 64 + 20 = 84$$

e. 77 ÷ 25

2. When dividing 82 by 43, Linda estimated the quotient to be 2. Examine Linda's work, and explain what she needs to do next. On the right, show how you would solve the problem.

Linda's estimation:

Linda's work:

Your work:

Linda's estimation is close. she just need to correct its algorithm.

3. A number divided by 43 has a quotient of 3 with 28 as a remainder. Find the number. Show your work.

N= 43 = 3 R 28 43 [157]

4. Write another division problem that has a quotient of 3 and a remainder of 28.

 $118 \div 30 = 3 R 28$ $148 \div 30 = 3 R 28$ $148 \div 40 = 3 R 28$ $178 \div 50 = 3 R 28$ $30 \times 3 = 90 + 28 = 148$ $40 \times 3 = 120 + 28 = 148$ $178 \div 50 = 3 R 28$ $90 \times 3 = 190 + 28 = 178$

5. Mrs. Silverstein sold 91 cupcakes at a food fair. The cupcakes were sold in boxes of "a baker's dozen," which is 13. She sold all the cupcakes at \$15 per box. How much money did she receive?

Lesson 20:

Divide two- and three-digit dividends by two-digit divisors with single-digit quotients and make connections to a written method Name_

- 1. Divide. Then, check with multiplication. The first one is done for you.
 - a. 72 ÷ 31
 - Check: 2 R 10

31 7 2

- $31 \times 2 = 62$
- 62 + 10 = 72

b. 89 ÷ 21

33 194 2×33=66 66 66+28=94

3×21=63 183 63 63+20=83

2. A 91 square foot bathroom has a length of 13 feet. What is the width of the bathroom?

91 ft2 w=? A= Lxw 01 ft2 = 13 ft x?

The width is 7 ft

3. While preparing for a morning conference, Principal Corsetti is laying out 8 dozen bagels on square plates. Each plate can hold 14 bagels.

a. How many plates of bagels will Mr. Corsetti have?

a plate holds

2 more bagels would complete another plate

lame	Date

- 1. Divide. Then, check using multiplication. The first one is done for you.
 - a. 258 ÷ 47

Check:

$$47 \times 5 = 235$$

235 + 23 = 258

67 x2 = 134 134 +14 = 148

 $73\overline{\smash)591} \qquad 73\times8 = 584$ $584 \qquad 584+7 = 591$

941759 $8 \times 94 = 752$ 752 752+7=759

 $74 \frac{8 \text{ R61}}{1653} \quad \stackrel{3}{7}4 \times 8 = 592$ $\frac{592}{61} \quad 592 + 61 = 653$

f. 257 ÷ 36

 $36\times7 = 252$ 252+5 = 257

2. Generate and solve at least one more division problem with the same quotient and remainder as the one below. Explain your thought process.

3. Assume that Mrs. Giang's car travels 14 miles on each gallon of gas. If she travels to visit her niece who lives 133 miles away, how many gallons of gas will Mrs. Giang need to make the round trip?

14 miles

133 X2= 266 miles roun trip

133 miles

- Mrs Giang needs 19 gallons
 4. Louis brings 79 pencils to school. After he gives each of his 15 classmates an equal number of pencils, he will give any leftover pencils to his teacher.
 - a. How many pencils will Louis' teacher receive? 79 percils 15 classmates

Louis teacher will receive 4 pencils
b. If Louis decides instead to take an equal share of the pencils along with his classmates, will his teacher

receive more pencils or fewer pencils? Show your thinking.

79 pencils

Divide two- and three-digit dividends by two-digit divisors with single-digit quotients and make connections to a written method. Name _

- 1. Divide. Then, check using multiplication. The first one is done for you.
 - a. 129 ÷ 21

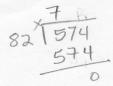
Check:

$$21 \times 6 = 126$$

b. 158 ÷ 37

c. 261÷49

d. 574 ÷ 82



e. 464 ÷ 58

f. 640 ÷ 79

8×79=632 632+8=640

2. It takes Juwan exactly 35 minutes by car to get to his grandmother's. The nearest parking area is a 4minute walk from her apartment. One week, he realized that he spent 5 hours and 12 minutes traveling to her apartment, and then back home. How many round trips did he make to visit his grandmother?

35 minutes (35x2)+(4x2)+3 4 minutes 78-43

5:12 total time a week 5:12=312 minutes

Juwan made 4 trips

3. How many eighty-fours are in 672?

There are 8 eighty-sours in 672.

Name	
INATITE	

- Date
- 1. Divide. Then, check using multiplication. The first one is done for you.
 - a. 580 ÷ 17

Check:

b. 730 ÷ 32

c. 940 ÷ 28

d. 553 ÷ 23

e. 704 ÷ 46

EUREKA

2. Halle solved 664 ÷ 48 below. She got a quotient of 13 with a remainder of 40. How could she use her work below to solve 659 ÷ 48 without redoing the work? Explain your thinking.

- 3. 27 students are learning to make balloon animals. There are 172 balloons to be shared equally among
 - a. How many balloons are left over after sharing them equally?



There are lo baloons left

b. If each student needs 7 balloons, how many more balloons are needed? Explain how you know.

They need 17 more balbons.

Name _

- 1. Divide. Then, check using multiplication. The first one is done for you.
 - a. 487 ÷ 21

Check:

b. 485 ÷ 15

c. 700 ÷ 21

e. 820 ÷ 42



Lesson 22:

Divide three- and four-digit dividends by two-digit divisors resulting in two- and three-digit quotients, reasoning about the decomposition of successive remainders in each place value.

When dividing 878 by 31, a student finds a quotient of 28 with a remainder of 11. Check the student's work, and use the check to find the error in the solution.

$$31 \times 28 = 868 \times 31$$

 $868 + 11 = 879 \times 4$
 $= 868$

3. A baker was going to arrange 432 desserts into rows of 28. The baker divides 432 by 28 and gets a quotient of 15 with remainder 12. Explain what the quotient and remainder represent.

Name

Date

1. Divide. Then, check using multiplication.

EUREKA MATH

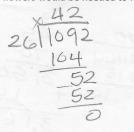
Lesson 23:

Divide three- and four-digit dividends by two-digit divisors resulting in two- and three-digit quotients, reasoning about the decomposition of successive remainders in each place value.

2. Mr. Riley baked 1,692 chocolate cookies. He sold them in boxes of 36 cookies each. How much money did he collect if he sold them all at \$8 per box?

Mr. Riley collected \$376.

3. 1,092 flowers are arranged into 26 vases, with the same number of flowers in each vase. How many flowers would be needed to fill 130 such vases?



5,460 flowers

4. The elephant's water tank holds 2,560 gallons of water. After two weeks, the zookeeper measures and finds that the tank has 1,944 gallons of water left. If the elephant drinks the same amount of water each day, how many days will a full tank of water last?

The tank will last 58 days.

Lesson 23:

Divide three- and four-digit dividends by two-digit divisors resulting in two- and three-digit quotients, reasoning about the decomposition of successive remainders in each place value.

	-		

1. Divide. Then, check using multiplication.

b. 1,495 ÷ 45

c. 6,691 ÷ 28

d. 2,625 ÷ 32

e. 2,409 ÷ 19	25 126 X19
19/2,409	1134
50	23 94
129	2,400
114	

f. 5,821 ÷ 62



2. A political gathering in South America was attended by 7,910 people. Each of South America's 14 countries was equally represented. How many representatives attended from each country?

Each country had 565 representatives

3. A candy company packages caramel into containers that hold 32 fluid ounces. In the last batch, 1,848 fluid ounces of caramel were made. How many containers were needed for this batch?

The company needs 57 containers

- 1. Divide. Show the division in the right-hand column in two steps. The first two have been done for you.

b.
$$1.2 \div 60 = (1.2 \div 6) \div 10 = 0.2 \div 10 = 0.02$$

- 2. Use place value reasoning and the first quotient to compute the second quotient. Explain your thinking.
 - a. $46.5 \div 5 = 9.3$

46.5 ÷ 50 = _ 6.93

tenths to hundred ths.

b. $0.51 \div 3 = 0.17$

0.51 ÷ 30 = 0.017

30 is 3×10, so it goes from hundred this to thousand this

c. $29.4 \div 70 = 0.42$

29.4 ÷ 7 = 4.2

7 is 70=10, so it goes from hundredths to tenths

d. 13.6 ÷ 40 = 0.34

13.6 ÷ 4 = 3 · 4

4 is 40:10, so it goes from hundred this to tenths.

3. Twenty polar bears live at the zoo. In four weeks, they eat 9,732.8 pounds of food altogether. Assuming each bear is fed the same amount of food, how much food is used to feed one bear for a week? Round your answer to the nearest pound.

121.6 2 122 486,6 Each bear eats 122 pounds

4. The total weight of 30 bags of flour and 4 bags of sugar is 42.6 kg. If each bag of sugar weighs 0.75 kg, what is the weight of each bag of flour?

Each bag weighs

Divide decimal dividends by multiples of 10, reasoning about the placement of the decimal point and making connections to a written

Name Date_

1. Divide. Show every other division sentence in two steps. The first two have been done for you.

a. $1.8 \div 6 = 0.3$

b. $1.8 \div 60 = (1.8 \div 6) \div 10 = 0.3 \div 10 = 0.03$

c. 2.4 ÷ 8 = 0 • 3

 $(2.4 \div 8) \div 10 = 0.3 \div 10 = 0.03$

e. 14.6÷2=___7.3

f. $14.6 \div 20 =$ $(14.6 \div 2) \div 10 = 7.3 \div 10 = 0.73$

h. 80 ÷ 400 = (80=4) -100 = 20-100 = . 2

(0.56-7)-10=08-10= 0.08

k. 9.45 ÷ 9 = 1.05

19.45:9):100 = 1.05:100=0.0105

1. Estimate the quotients.

$$3.2 \div 80 = 0.04$$

2. Estimate the quotient in (a). Use your estimated quotient to estimate (b) and (c).

- 3. Edward bikes the same route to and from school each day. After 28 school days, he bikes a total distance of 389.2 miles.
 - a. Estimate how many miles he bikes in one day.

Edward bikes about 13 miles in one day

b. If Edward continues his routine of biking to school, about how many days altogether will it take him to reach a total distance of 500 miles?

500 - 13 =

Edward will take about

38 days to reach 500 miles.

4. Xavier goes to the store with \$40. He spends \$38.60 on 13 bags of popcorn.

- - a. About how much does one bag of popcorn cost?

\$38.60 spent $38.60 \approx 39 = 39 \div 10 = 3090$

13 bags

Euch bag of popcorn cost about \$3.90

b. Does he have enough money for another bag? Use your estimate to explain your answer.

Xavier does not have

\$ 3.90 and only has \$1.40 left

EUREKA

Name _

1. Estimate the quotients.

2. Estimate the quotient in (a). Use your estimated quotient to estimate (b) and (c).

$$90 - 40 = 2.25$$

3. Mrs. Huynh bought a bag of 3-dozen toy animals as party favors for her son's birthday party. The bag of toy animals cost \$28.97. Estimate the price of each toy animal.

28.97

28.97 ≈ 30

30-:40 = 0.75

3 dozen (36)

Each toy animal cost \$0.75

- 4. Carter drank 15.75 gallons of water in 4 weeks. He drank the same amount of water each day.
 - a. Estimate how many gallons he drank in one day.

15.75

4 weeks (28days) 15.75 ≈ 20 28 ≈ 30

20:30=0.66

b. Estimate how many gallons he drank in one week.

6.66 × 7 = 4.62

the would drink about 4.6 gallons

c. About how many days altogether will it take him to drink 20 gallons?

20

0,66

It would take about 31 days to drink 20 gallons

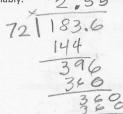
Name .

Date

1.	156 ÷ 24 and 102 ÷ a. Are the division justify your ans		each other? Use your knowledge of	decimal division to They are ust i valent
	b. Construct your of 12 but is not 12 but 35 1213 210 30	own division problem with a	a two-digit divisor that has a quotier in 1(a).	t of 6 and a remainder 212.5 41 246 246 4 5
2.	Divide Then check	your work with multiplicat	ion	451
	a. 36.14 ÷ 13	× 2-78	b., 62.79 ÷ 23	2-73
-	2 2 2278 13 ,834 278 35.64	13 36.14 26 10 9 10 10 10 10 10 10	2.73 23 1819 546 62,79	23 62.79
	c. 12.21÷11	11/12.21 12/11/12 12/11/10 12/11/10 11/10	d. 6.89 ÷ 13 0.53 13 159 53 6.89 f. 24.96 ÷ 52	13 6.89 6.89 6.5 39 0 52 24.96 20.8 1) 1.6
	416 208 249.6	416	208	416

	, 0.51
59	130.09
	295
	59
ncel 21 s Segret no Teseco	

3. The weight of 72 identical marbles is 183.6 grams. What is the weight of each marble? Explain how you know the decimal point of your quotient is placed reasonably.



4. Cameron wants to measure the length of his classroom using his foot as a length unit. His teacher tells him the length of the classroom is 23 meters. Cameron steps across the classroom heel to toe and finds that it takes him 92 steps. How long is Cameron's foot in meters?

5. A blue rope is three times as long as a red rope. A green rope is 5 times as long as the blue rope. If the total length of the three ropes is 508.25 meters, what is the length of the blue rope?

$$r + (3 \times r) + (5 \times b) = 508.25$$

$$r + (3 \times r) + 5 \times (3 + r) = 191508.25$$

$$r + 3r + 15r = 19r = 38$$

$$\frac{38}{401.25} = \frac{38}{26.75} = \frac{38}{128}$$

Lesson 26:

Divide decimal dividends by two-digit divisors, estimating quotients, reasoning about the placement of the decimal point, and making connections to a written method.

Date

1. Create two whole number division problems that have is greater using decimal division. (25 × 9)+5 25 230 225+5 225 = 230	(35×9)+5 $= 325+5$ $= 330$	251330 251330 251330 25
2. Divide. Then, check your work with multiplication. a. 75.9 ÷ 22 22 75.9 3.45 7.22 999 88 110 75.96 2.03 6.77.14 ÷ 38 38 77.14	b. 97.28 ÷ 19 5 · 1 2 × 19 4608 512 97.28 d. 12.18 ÷ 29	19 197.28 95 229 338 042 0
2.03 ×38, 1624 609 7714 3. Divide. 32,52	×29 37 8 84 12.18	58 -58 -58 -58
a. 97.58 ÷ 3 3 1 97.58 32.52 4 7.56 4 7.58 97.58	b. 55.35 ÷ 45	45 \ 55.35 45 \ 103 135 135

4. Use the equations on the left to solve the problems on the right. Explain how you decided where to place the decimal in the quotient.

a. $520.3 \div 43 = 12.1$

52.03 ÷ 43 = 1.2

520.3 is ten times larger than 52.03

19.08 ÷ 36 = 0.53

190.8 ÷ 36 = ____ 5 . 3

is ten times less than 190.8

- 5. You can look up information on the world's tallest buildings at http://www.infoplease.com/ipa/A0001338.html.
 - a. The Aon Centre in Chicago, Illinois, is one of the world's tallest buildings. Built in 1973, it is 1,136 feet high and has 80 stories. If each story is of equal height, how tall is each story?

1134- 80

Each story is

b. Burj al Arab Hotel, another one of the world's tallest buildings, was finished in 1999. Located in Dubai, it is 1,053 feet high with 60 stories. If each floor is the same height, how much taller or shorter is each floor than the height of the floors in the Aon Center?

1,053-,40

Burjal Avalo Hotel 17055 Aon Center 1402

Divide decimal dividends by two-digit divisors, estimating quotients, reasoning about the placement of the decimal point, and making connections to a written method.

Name

Date

1. Divide. Check your work with multiplication.

e. 81 ÷ 54

f. 15.6 ÷ 15

g. 5.4 ÷ 15

h. 16.12 ÷ 52

i. 2.8 ÷ 16

2. 30.48 kg of beef was placed into 24 packages of equal weight. What is the weight of one package of

30.48 = 24

Lesson 27:

Divide decimal dividends by two-digit divisors, estimating quotients, reasoning about the placement of the decimal point, and making connections to a written method.

3. What is the length of a rectangle whose width is 17 inches and whose area is 582.25 in²?

L=?

w= Itin

The length is 34.25in

4. A soccer coach spent \$162 dollars on 24 pairs of socks for his players. How much did five pairs of socks

24 patrs \$162

5 pairs

5 pairs cost \$33.75

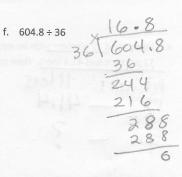
5. A craft club makes 95 identical paperweights to sell. They collect \$230.85 from selling all the paperweights. If the profit the club collects on each paperweight is two times as much as the cost to make each one, what does it cost the club to make each paperweight?

Profit 3/3 of the cost

Divide decimal dividends by two-digit divisors, estimating quotients, reasoning about the placement of the decimal point, and making connections to a written method.

Name	1350				

1. Divide. Check your work with multiplication.



2. In a science class, students water a plant with the same amount of water each day for 28 consecutive days. If the students use a total of 23.8 liters of water over the 28 days, how many liters of water did they use each day? How many milliliters did they use each day?

They use 0.85 liters a day or 850 milliliters daily.

3. A seamstress has a piece of cloth that is 3 yards long. She cuts it into shorter lengths of 16 inches each. How many of the shorter pieces can she cut?

She can cut 2 shorter pieces

4. Jenny filled 12 pitchers with an equal amount of lemonade in each. The total amount of lemonade in the 12 pitchers was 41.4 liters. How many liters of lemonade would be in 7 pitchers?

7 pitchers hold 24.15 liters of lemonade

Name	Date Date

1. Ava is saving for a new computer that costs \$1,218. She has already saved half of the money. Ava earns \$14.00 per hour. How many hours must Ava work in order to save the rest of the money?

computer \$1,218 Saved \$ 1,218:2 Earns & Wan hour



Ava has to work 43.5 hours to save the rest of the money (609)

2. Michael has a collection of 1,404 sports cards. He hopes to sell the collection in packs of 36 cards, and make \$633.75 when all the packs are sold. If each pack is priced the same, how much should Michael charge per pack?

1,404 cards 36 cards/package Make 633.75 in all

Michal should charge \$ 16.25 per pack.

3. Jim Nasium is building a tree house for his two daughters. He cuts 12 pieces of wood from a board that is 128 inches long. He cuts 5 pieces that measure 15.75 inches each, and 7 pieces evenly cut from what is left. Jim calculates that, due to the width of his cutting blade, he will lose a total of 2 inches of wood after making all of the cuts. What is the length of each of the seven pieces?

5 x 15.75 inches = 78.75 in 128-2=126

Each of the Tpieces is 6-75 inches long

4. A load of bricks is twice as heavy as a load of sticks. The total weight of 4 loads of bricks and 4 loads of sticks is 771 kilograms. What is the total weight of 1 load of bricks and 3 loads of sticks?

bricks 2x5 15+46=771 9s + 8s = 77

Name	Date	There are 90 filth grade studen
	2 166.25 ft of edging on the flower beds in his backy nany lengths of edging will Mr. Rice need to purchas	
33.50 15 03.50 15 03.50	95 to pu	Rice needs rchase of length
of walnuts, and 12.5 ounces of each granola bar? P = 17.9 cances A = 12.6 cances W = 12.5 ounces C = 12.5 ounces	She will use 17.9 ounces of pistachios, 12.6 ounces of cashews. This amount makes 25 bars. How many 17.9 12.6 12.6 12.5 12.5 55.5	younces of nuts are in 1.82 55.5 25 20 56 50
	nd he uses 6.4 kg to make hot cross buns. The remains f scones. How much flour, in kg, will be in each bat	
r 16.45 Kg 5 6.4 Kg	16.45	5 10.05

Solve division word problems involving multi-digit division with group size unknown and the number of groups unknown. Lesson 28:

4. There are 90 fifth grade students going on a field trip. Each student gives the teacher \$9.25 to cover admission to the theater and for lunch. Admission for all of the students will cost \$315, and each student will get an equal amount to spend on lunch. How much will each fifth grader get to spend on lunch?

total \$ 315

Each student will get & 5.75 to spend

5. Ben is making math manipulatives to sell. He wants to make at least \$450. Each manipulative costs \$18 to make. He is selling them for \$30 each. What is the minimum number he can sell to reach his goal?

goal \$ 450

\$18 eads

sale price \$30

The minimum he can sell to earn 460 is 38 ;

	Date
Solve.	
	of potatoes to deliver equally to 18 stores. 12 of the stores are in the Bronx. toes will be delivered to stores in the Bronx?
1,354.5 Kg	18 1354.5
18 stores	126
12 stores in 18 the Brunx	75.25 90 × 12 15050 7525 903,00
lamar deliver	5 002 V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 Valerie uses 12 fluid oz of det bottle, in how many weeks w 	sergent each week for her laundry. If there are 75 fluid oz of detergent in the ill she need to buy a new bottle of detergent? Explain how you know. 12 175 12 175 24 36 24
2. Valerie uses 12 fluid oz of det bottle, in how many weeks w a week 2 ounces bottle 75 ounces Valerie need new bottle a	rergent each week for her laundry. If there are 75 fluid oz of detergent in the ill she need to buy a new bottle of detergent? Explain how you know. 12 175 136 24 60

3. The area of a rectangle is 56.96 m². If the length is 16 m, what is its perimeter?



$$L \times W = A$$

 $16 \times ? = 56.96$
 $W = 3.56$

e area of a rectangle is 56.96 m². If the length is 16 m, what is its perimeter?

$$L \times W = A$$

$$16 \times 3 = 56.96$$

$$W = 3.56$$

$$W = 3.56$$

$$W = 3.56$$

$$V = 2 \times (L \times W)$$

$$V = 2 \times (3.56 + 16)$$

$$V = 2 \times (3.56 + 16)$$

$$V = 3.56$$

$$V = 3.656$$

The perimeter is 39.12m

4. A city block is 3 times as long as it is wide. If the distance around the block is 0.48 kilometers, what is the area of the block in square meters?

 $2 \times (L+w) = 0.48 \text{ Km}$ $2 \times (6+2) = 0.48 \text{ Km}$ 16 16 = 0.48 Km = 480

$$w = 30m$$

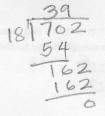
 $L = 90m$

The area of the block is 2,700 m

Solve.				
	e \$150 for a trip to the Six Flags e her to save enough money fo		he saves \$12 each w	reek, how
	×12.5 ≈ 13			
1	12			
	30			
	60			
	60	Michelle	e will ta	Ke
	C. Ô	13 wee	eks to sa	we enough
How much does Karer	rns \$ 178 for	85 11		period. 22.29 × 8 1780
3. The area of a rectangl	e is 256.5 m². If the length is 18	3 m, what is the perim	eter of the rectangle	20
(29	$A = L \times \omega$ $256.5 = 18 \times$ $\omega = 14.25$? 181	256.5	P=2(L+u
18m 256-5m	w=14.25	32.25	76	P=2(18+14) P=2×3200 P=64.50
		64.50	36	P=64.5
- The perior	neter is 64.	50	-0	•
FURFKA Le	sson 29: Solve division word problem	s involving multi-division with	group size	

4. Tyler baked 702 cookies. He sold them in boxes of 18. After selling all of the boxes of cookies for the same amount each, he earned \$136.50. What was the cost of one box of cookies?

702 cookies boxes with 18 total sale \$ 136.50



Each box cost \$3.50

5. A park is 4 times as long as it is wide. If the distance around the park is 12.5 kilometers, what is the area of the park?

1=4w

$$P=2(L+w)$$
 $12.5=2\times(Hw+1w)$
 $12.5=2\times(5w)$
 $12.5=10\times w$
 $1.25=10$
 $1.25=10$
 $1.25=10$
 $1.25=10$
 $1.25=10$

The area of the park is 6.25 Km²