So Di	olv: vis	ing Extended sion Facts		Ho	D me Link 6-1 Me DATE	TIME
Write	e a b	basic division fact and an extended 160 \times, \div	divisio 2	n fac	et for each Fact Triangle.	SRB 110
Solv	Bas Exte e.	4 sic fact: 16 ÷ 4 = ended fact: 160 ÷ 4 =		 Bas Ext	fact: ended fact:	·
3	a. b. c. d.	25 ÷ 5 250 ÷ 5 = 2,500 ÷ 5 = 250 ÷ 50 =	4	a. b. c. d.	36 ÷ 4 = 360 ÷ 4 = 3,600 ÷ 4 = 360 ÷ 40 =	
5	a. b. c. d.	18 ÷ 9 = 180 ÷ 9 = 1,800 ÷ 9 = 180 ÷ 90 =	6	a. b. c. d.	42 / 7 = 420 / 7 = 4,200 / 7 = 420 / 70 =	

Practice

- (7) 456 * 5 = _____
- **8** 720 * 8 = _____
- **9** 905 * 7 = _____

Fi	nding	the Unknown	Home Link 6-2			
Si	de Ler	ngth	NAME	DATE	TIME	
Solv	e.				SRB	
(1)			5		111-112, 204	
G	2 meters	60) square meters			
	How long Equation v	is the unknown side s? vith unknown:				
	Answer: _	meters				
(2)			t			
U	6 meters	420 sc	quare meters			
	What is th	e length of the unknown side t	?			

Equation with unknown: _____

Answer: _____ meters

(3) Fill in the unknown information about some rectangular rooms in a museum.

Room	Length in Yards	Width in Yards	Area in Square Yards
А	6		18
В		8	56
С	9	5	
D		9	90

(4) A store is rectangular in shape with an area of 2,700 square feet. It has a length of 90 feet. How wide is it?

Equation with unknown: _____

Answer: ______ feet

Practice

(5) 420 ÷ 7 = _____ **(6)** _____ = 3,600 / 6 **(7)** 5,400 ÷ 90 = _____

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Solving Division Number Stories

Sc	lving Divisio	n	Home Link 6	5-3	
N	umber Stories	S	NAME	DATE	TIME
Fill i	n the lists of multiples to	help you, if ne	eeded.		SRB
 Rosario sells bicycle wheels in packages of 2. If a store orders 46 wheels, how many packages will she send? 					
	20 [2s] =	Number mod	lel with unknown:		
	21 [2s] =	Answer:	packages		

22 [2s] = _____ Number model with answer: _____

23 [2s] = _____

- 24 [2s] = _____
- 25 [2s] = _____
- (2)Doug is placing apples in bags for a picnic. He can fit 6 apples in a bag. If he has 92 apples, how many bags will he need?

10 [6s] =	Number model with unknown:
11 [6s] =	Answer: bags
12 [6s] =	Number model with answer:
13 [6s] =	
14 [6s] =	
15 [6s] =	
16 [6s] =	
17 [6s] =	
18 [6s] =	

Practice

82 * 10 = _____ (4) _____ = 25 * 30 333 * 3 = _____ (5)(3)

Partial-Quotients Division

Home Link 6-4

NAME

DATE TIME

Family Note In this lesson students are introduced to the partial-quotients method, in which a number is divided in a series of steps. The quotients for each step (called partial quotients) are added to give the final answer. For example, to divide 96 by 6, students use extended multiplication facts such as 6 * 10 = 60 to find the partial quotient. Then with the remaining 36, they use an "easy" multiplication fact, 6 * 6, to finish solving the problem. These two partial quotients are added together, 10 + 6, to find the exact quotient of 16. So $96 \div 6 = 16$.

Estimate. Write a number model with an unknown to represent the problem. Then solve using partial quotients.



 Jordan has 3 Great Dane puppies. At 6 weeks old, their combined weight is 48 pounds. Assuming that they all weigh about the same amount, how much does each puppy weigh?

Estimate:	

Number	model	with	unknown:	
--------	-------	------	----------	--

Answer: _____ pound(s)

(2) Four sisters love barrettes. They have a value pack that contains 92 barrettes. How many barrettes can each sister have if they share equally?

Estimate:	

Number model	with	unknown

Answer:	_ barrette(s)
---------	---------------

Practice

Name two equivalent fractions for each fraction given.



Mr. Atkins is organizing the 4th- and 5th-grade field trip to the science museum. He asked his students to help him figure out which students and teachers should ao on each bus. The number of students in each class is shown in the table below:

Mr. Atkins's 4th-grade class	31 students
Ms. Smith's 4th-grade class	28 students
Mr. Bates's 5th-grade class	29 students
Mrs. Gonzales's 5th-grade class	27 students

Important information: 4 buses have been ordered.

Home Link 6-5

NAME

- The maximum number of passengers is 30 per bus.
- Each bus must have 1 teacher.

DATE

Cary said he solved the problem this way:

115 | 4 is 28 with a remainder of 3.

(1) What do the numbers in his sentence mean?

Which students and teachers should go on each bus? Explain why. (2)

Practice

(3) $\frac{3}{8} + \frac{4}{8} =$ **(4)** $\frac{5}{6} + \frac{3}{6} =$ **(5)** $\frac{4}{5} - \frac{2}{5} =$ **(6)** $\frac{7}{10} - \frac{3}{10} =$ **(7)**

Mr. Atkins's 4th-grade class	31 students			
Ms. Smith's 4th-grade class	28 students			
Mr. Bates's 5th-grade class	29 students			
Mrs. Gonzales's 5th-grade class	27 students			

SRB 113-115

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TIME

					(~	\sim
Converti	ng					Home	Link 6	6-6			
Units of V	Vei	ght				NAME			DATE	TIM	IE
tons 0		1		2		3		4		5	SRB
pounds 0		2,000		4,000		6,000	8	3,000	1	0,000	190-192
pounds 0	1	2	3	4	5	6	7	8	9	10	
ounces 0	16	32	48	64	80	96	112	128	144	160	

Use the measurement scales to help you solve the problems.

1	Tons	Pounds	2	Pounds	Ounces
	1	2,000		1	16
	6			5	
		14,000		9	
	8				160
		22,000		15	

(3) The army chef is ordering food for the troops. She ordered 2 tons of rice, 1 ton of pasta, and 1 ton of flour. How many pounds of food did she order?

Answer: _____ pound(s)

Potatoes come in 8-pound bags. How many ounces do 12 bags weigh?

Answer: _____ ounce(s)

Practice

(5) $\frac{4}{8} + \frac{3}{8} =$ **(6)** $= \frac{5}{8} - \frac{3}{8}$ **(7)** $= \frac{5}{10} + \frac{3}{100}$ **(8)** $\frac{60}{100} + \frac{4}{10} =$

Estimate. V (1) The c prizes many Estim Numb	Write a number model to represent th				
 The c prizes many Estim Numb 		e pro	blem. Solve using p	artial quotie	ents. Srb
	carnival committee has 360 small s to distribute to 5 booths. How y prizes will each booth get? nate: ber model with unknown:	2	The mall needs a spaces. The lengt area is 2,711 feet space is 9 feet w spaces will there Estimate: Number model wir	row of park h of the park I f each pa ide, how ma be? th unknown:	ing rking ırking ıny
Answe How r	rer: prizes many prizes are left over? prizes	6	Answer: How many feet an	spaces re left over?	· feet
	g partial quotients. Snow your work	on the	e back of this page	Acourt	
 (3) 101 / (4) 576 / 	/ 4 Estimate:			Answer:	
Practice Put these of (5) 0.98, (6) 0.11,	e decimals in order from least to great 0.34, 9.8, 0.08,, 0.01, 0.10, 1.0,	test. ,	,		
Use <, >,	or $=$ to compare the decimals.				

Interpreting Remainders

Home Link 6-8

NAME

SRB 47, 113-116

- Mrs. Patel brought a box of 124 strawberries to the party. She wants to divide the strawberries evenly among 8 people. How many strawberries will each person get?
- 2 Mr. Chew has a box of 250 pens. He asks Maurice to divide the pens into groups of 8. How many groups can Maurice make?

Number model with unknown:			
Answer:			
groups			
Number model with answer:			
What did you do about the remainder?			
Circle the answer.			
A. Ignored it			
B. Reported it as a fraction			
C. Rounded the answer up			
Why?			

Practice

Order the fractions from smallest to largest.







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 Practice

 (7)
 2
 3, 8
 0
 7
 (8)
 5
 3
 0, 0
 8
 3

 +
 4
 2, 0
 0
 4
 + 2
 8
 3, 6
 9
 0

 (9)
 8
 7, 9
 4
 2
 (10)
 6
 0
 0, 2
 9
 9

 2
 3, 8
 5
 1
 5
 1
 0, 3
 4
 5

Fii	nding Angle Measure	S	Home Link 6-11	DATE	ТІМЕ
Find	the unknown angle measures in Problem	ns 1–6	5. Do not use a protracto	or.	SRB 211-212
	A right angle measures 90°.		A straight angle measure	► es 180°.	
1	30°	2	x 55°		
	Equation with unknown:	-	Equation with unknown:		
	Answer:		Answer:		
3	75° z	4	b 100°		
	Equation with unknown:	-	Equation with unknown:		
	Answer:		Answer:		
5	a 60°	6	p/ 70°		
	Equation with unknown:	-	Equation with unknown:		
	Answer:		Answer:		

Practice

Order the fractions from smallest to largest.

7	$\frac{7}{10}, \frac{7}{8}, \frac{7}{12}, \frac{7}{9}$	8	$\frac{5}{9}, \frac{99}{100}, \frac{1}{4}, \frac{9}{10}$
---	--	---	--

Solving Number Stories

Home Link 6-12

NAME

 Write a number model with an unknown to represent each problem. Then solve. (1) Martin had some leftover fruit from making fruit salad. He had ³/₁₂ pound of strawberries and ¹/₁₂ pound of blueberries. Which fruit weighed more?
 Martin had some leftover fruit from making fruit salad. He had ³/₁₂ pound of strawberries and ¹/₁₂ pound of blueberries. Which fruit weighed more?
 Which fruit weighed more?
 a. How many pounds of fruit did Martin have left? Number model with unknown:
Number model with unknown:
 Answer: pound b. How much more did the strawberries weigh than the blueberries? Number model with unknown: Answer: pound (2) Charlotte and Beth each made a vegetable salad to take to a reunion. Together the salads weighed 6 pounds. Charlotte's salad weighed 3¹/₂ pounds. a. How much did Beth's salad weigh? Number model with unknown: Answer: pounds b. How much more did Charlotte's salad weigh than Beth's? Number model with unknown:
 b. How much more did the strawberries weigh than the blueberries? Number model with unknown:
Number model with unknown:
 Answer: pound Charlotte and Beth each made a vegetable salad to take to a reunion. Together the salads weighed 6 pounds. Charlotte's salad weighed 3¹/₂ pounds. a. How much did Beth's salad weigh? Number model with unknown: Answer: pounds b. How much more did Charlotte's salad weigh than Beth's? Number model with unknown:
 Charlotte and Beth each made a vegetable salad to take to a reunion. Together the salads weighed 6 pounds. Charlotte's salad weighed 3¹/₂ pounds. a. How much did Beth's salad weigh? Number model with unknown:
 a. How much did Beth's salad weigh? Number model with unknown:
Number model with unknown: Answer: pounds b. How much more did Charlotte's salad weigh than Beth's? Number model with unknown:
Answer: pounds b. How much more did Charlotte's salad weigh than Beth's? Number model with unknown:
 b. How much more did Charlotte's salad weigh than Beth's? Number model with unknown:
Number model with unknown:
Answer: pound
(3) Andy's potato salad weighed $1\frac{3}{8}$ pounds more than Mardi's. Mardi's potato salad weighed $4\frac{2}{8}$ pounds. How much did Andy's potato salad weigh?
Number model with unknown:
Answer: pounds
Practice

(4)

826 * 5 = _____

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(5) 48 * 50 = _____

by	y a Whole Number		DATE	
Solv	ve. Use drawings, words, and equatio	ns to represent the problem	ıs.	S 17
1	5 vans were needed for a camp fiel	d trip. There were 9 childre	n per van.	-
	How many children went on the fiel	d trip? children		
	Drawing:	Words: grou	ps of	-
		Addition equation:		
		Multiplication equation	1:	
2	Penny and her 2 friends each ate $\frac{1}{6}$ of a cake	of a cake. How much cake	e did they eat?	
	Drawing:	Words: grou	ps of	-
		Addition equation:		
		Multiplication equation	1:	
3	Christopher wants to give his 4 frie	nds $\frac{3}{5}$ of a veggie pizza eac	h.	
	How much veggie pizza will he need	1? veggie pizzas		
	Drawing:	Words: grou	ps of	-
		Addition equation:		
		Multiplication equation	1:	
Pra	actice			