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Student Activity Book

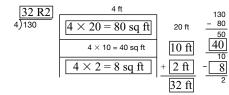
Moving Ahead with Division

Questions 1-30 (SAB pp. 521-535)

Ι.

y \							Into the Columns	Left to Divide
441 ÷ 7 = 63	3 3	3	3	3	3	3	21	0
1	0 10	10	10	10	10	10	70	21
3	0 30	30	30	30	30	30	210	91
2	0 20	20	20	20	20	20	140	301

2.



3. 76 ÷ 4. First I put 10 chocolates in each cup. I have divided 40 of the chocolates so far. I still have 36 left to divide.

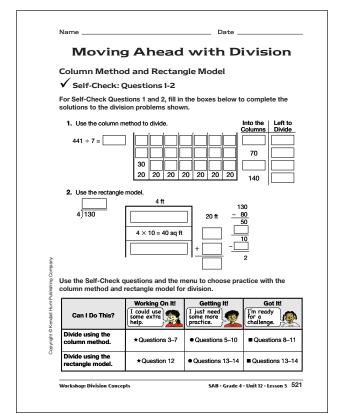
Next I put 5 more chocolates in each cup. I have divided 60 of the chocolates so far. I still have 16 left to divide.

Finally I put 4 more chocolates in each cup. Now I have divided 76 of the chocolates. I have no more chocolates to divide.

There are $\boxed{19}$ chocolates in each cup. So, $76 \div 4 = \boxed{19}$.

4. 36

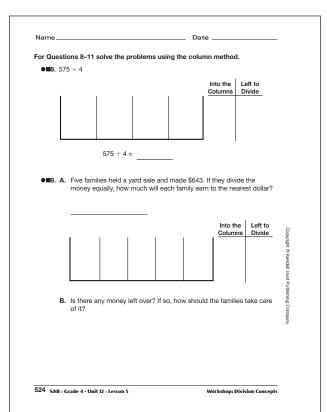
Possible explanation: I added the numbers in one of the columns.



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Name									Date		
* 3.	4 cu cube	ps. V es to	Vork 1	with a	part	ner a	nd us eps. F Fin	se cor ill in t	vided	ocolates in each cup. of chocolates so far. t to divide.	
	10][10				Alt ch	ogeth		hocolates in each cup.	
	Finally I put more chocolates in each cup. Now I have divided of the chocolates. I have no more chocolates to divide.							Copyright © Kendall Hunt Publishing Company			
				_					So, 76 ÷ 4	= .	Kenda
★4.	Rob	erto ı	uses	the c	olumi	n met	hod 1	to divi	de: Into the	Left to	all Hunt
			ı		ı				Columns	Divide	Publish
	1 5	1 5	1 5	1 5	1 5	1 5	1 5	1 5	8 40	0	ing Cor
	10	10	10	10	10	10	10	10	80	47	npany
	20	20	20	20	20	20	20	20	160	127	
					to th und t				em? 8)288	3	
522 sa										Vorkshop: Division Concepts	

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5. Possible solution:

			Into the Columns	Left to Divide
1 30	1 30	1 30	3 90	0 3
9:	3 ÷ 3 = <u>3</u>	1_	•	

6. Possible solution:

					Into the Columns	Left to Divide			
5 10	5 10	5 10	5 10	5 10	25 50	0 25			
75 ÷ 5 = 15									

7. Possible solution:

									Into the Columns	Left to Divide
	4 10	4 10	4 10	4 10	4 10	4 10	4 10	4 10	32 80	3 35
,	$\underline{115} \div \underline{8} = \underline{14} \ \underline{R} \ \underline{3}$									

3 chocolates left over

8. Possible solution:

				Into the Columns	Left to Divide
3	3	3	3	12	3
40	40	40	40	160	15
100	100	100	100	400	175

$$575 \div 4 = 143 \text{ R3}$$

9. A. Possible solution:

\$128

					Into the	Left to		
			1		Columns	Divide		
8	8	8	8	8	40	3		
20	20	20	20	20	100	43		
100	100	100	100	100	500	143		
643 ÷ 5 = 128 R 3								

B. There will be \$3 left over.

Possible response: \$3 divided 5 ways is 60¢, so each family can get \$128.60.

10. $902 \div 7 = 128 \text{ R6}$

Possible solution:

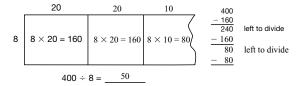
								Into the Columns	Left to Divide
2	3	8	8	8	8	8	8	56	6
	0	20	20	20	20	20	20	140	62
	00	100	100	100	100	100	100	700	202

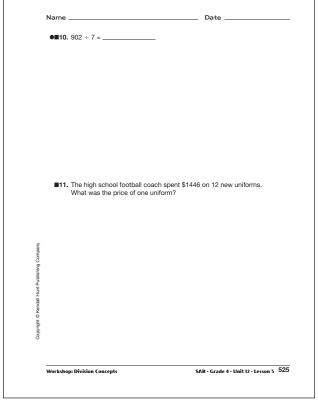
II. Possible response: $$1446 \div 12 = 120.50

	Into the	Left to
	Columns	Divide
50¢ 50¢ 50¢ 50¢ 50¢ 50¢ 50¢ 50¢ 50¢ 50¢ 50¢ 50¢		0
\$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20	210	60
\$100\$100\$100\$100\$100\$100\$100\$100\$100\$10	1200	246

Students may show the answer as \$120 R6.

- 12. A. 3 squares because $3 \times 8 = 24$
 - **B.** 10 squares because $8 \times 10 = 80$
 - C. 50 squares
 - **D.** Possible solution:

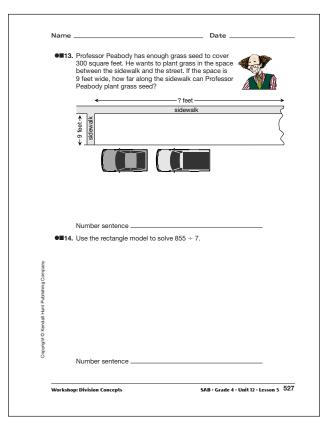




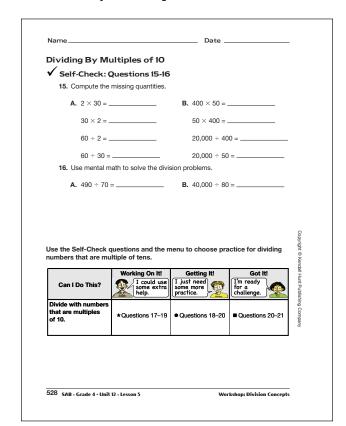
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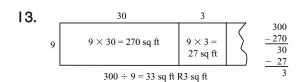
Name_	Date	
	The students in Mrs. Dewey's class want to create a handprint mural luring the school fair. Eight handprint squares fit along the width of t paper.	
	← ? squares —	→
		7
,	How many squares need to fit along the length of the paper if 24 total squares are to fit on the mural? Explain your thinking.	
ı	How many squares need to fit along the length of the paper if 80 total squares are to fit on the mural? Explain your thinking.	
•	2. How many squares need to fit along the length of the paper if 400 total squares are to fit on the mural?	
- 1	D. Jerome started by using the diagram below. Help him finish.	
	$ 8 \times 20 = 160 $	
	400 ÷ 8 =	
-06	· Grade 4 · Unit 12 · Lesson 5 Workshop: Division Co	oncepts

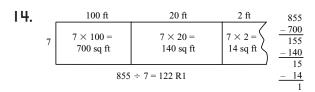
Answer Key • Lesson 5 • Workshop: Division Concepts



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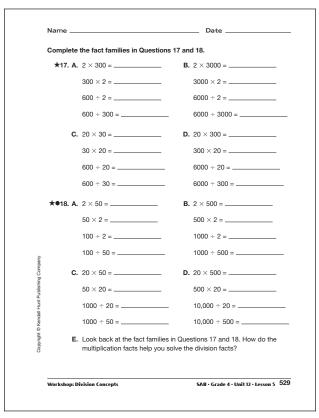


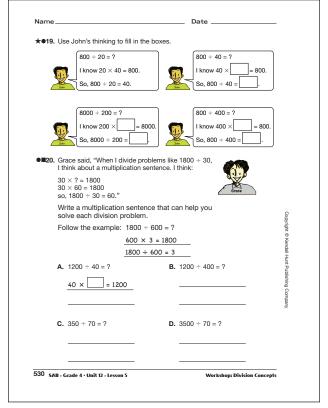




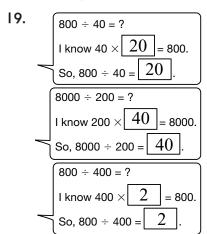
- **B.** 6000 6000 3000 2
 - **C.** 600 **D.** 6000 6000 30 300 20 20
- 18. A. 100 100 50 2 100 500 2
 - **C.** 1000 **D.** 10,000 10,000 50 500 20 20
 - **E.** Possible response: A multiplication fact can be written as a division fact by taking the product and dividing it by one of the factors to give the other factor.

Answer Key • Lesson 5 • Workshop: Division Concepts





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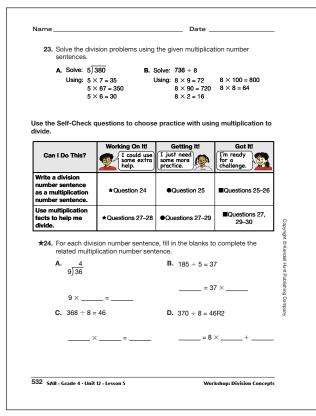


- **20. A.** $40 \times 30 = 1200$ $1200 \div 40 = 30$
- **B.** $400 \times 3 = 1200$ $1200 \div 400 = 3$
- **C.** $70 \times 5 = 350$ $350 \div 70 = 5$
- **D.** $70 \times 50 = 3500$ $3500 \div 70 = 50$
- **E.** $60 \times 50 = 3000$ $3000 \div 60 = 50$
- F. $600 \times 50 = 30,000$ $30,000 \div 600 = 50$
- **G.** $80 \times 8 = 640$ $640 \div 80 = 8$
- **H.** $80 \times 80 = 6400$ $6400 \div 80 = 80$
- **21. A.** 8 R8
- **B.** 70 R2
- **C.** Possible response: I know $4900 \div 70 = 70$, and the extra 2 is a remainder.
- **22. A.** $7 \times 63 = 441$
- **B.** $380 = 3 \times 126 + 2$

			Date
	E. 3000 ÷ 60 = ?	F.	30,000 ÷ 600 = ?
	G. 640 ÷ 80 = ?	—	6400 ÷ 80 = ?
		_	
■21	. Use mental math to so	lve the division pr	oblems.
	A. $648 \div 80 = ?$	В.	4902 ÷ 70 = ?
	C. Explain your menta	I math strategy fo	r Question 21B.
	ng Multiplication	n to Divide	
	elf-Check: Questic	ons 22-23	ation number sentences for each
	elf-Check: Questic	ons 22-23	ation number sentences for each
	elf-Check: Questic	ons 22-23	ation number sentences for eac
	elf-Check: Questic 2. Fill in the blanks below of the division sentenc A. 441 ÷ 7 = 63	ons 22-23	ation number sentences for eac
	elf-Check: Questic L. Fill in the blanks below of the division sentenc A. 441 + 7 = 63 X 126 R2	ons 22-23 to show multiplices.	ation number sentences for eac
√ Se	elf-Check: Questic 2. Fill in the blanks below of the division sentenc A. 441 ÷ 7 = 63	ons 22-23 to show multiplices.	ation number sentences for eac
	elf-Check: Questic L. Fill in the blanks below of the division sentenc A. 441 + 7 = 63 X 126 R2	ons 22-23 to show multiplices.	ation number sentences for eac

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Answer Key • Lesson 5 • Workshop: Division Concepts



23. A. 60 + 6	+ 6 + 4 = 76
380	
_ 300	(5×60)
80	
_ 30	(5×6)
50	$(3 \wedge 0)$
- 30	
20	(5×6)
	(5×2)

B.
$$90 + 2 = 92$$

$$\begin{array}{r} 736 \\ -720 \\ \hline 16 \\ -16 \end{array} (8 \times 90)$$

24. A.
$$9 \times 4 = 36$$
 B. $185 = 37 \times 5$

C.
$$8 \times 46 = 368$$
 D. $370 = 8 \times 46 + 2$

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Name _	Date
	or each division number sentence, write the related multiplication umber sentence.
А	. 260 ÷ 4 = 65
	×=
В	5. <u>114</u> R1 6)685
	=X+
С	2. 260 ÷ 4 = 65
D	. <u>6</u> R30 125]780
	Write each number sentence below as a division number sentence. B. $465 = 9 \times 51 + 6$
Copyright © Kendall Hunt Publishing Company	Can you write a different division number sentence for Question 26E
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	Division Concepts SAB • Grade 4 • Unit 12 • Lesson 5 •

25. A. 4 × 65 = 260 B. 685 = 6 × 114 + 1 C. 4 × 65 = 260 D. 6 × 125 + 30 = 780 26. A. 833 ÷ 6 = 138 R5 or 833 ÷ 138 = 6 R5 B. 465 ÷ 9 = 51 R6 or 465 ÷ 51 = 6 R6 C. See 26B.

- 27. A. Possible response: No, $300 \div 5 = 60$, so $285 \div 5$ will be smaller than 60, so 85 is too large.
 - **B.** She should have added 50 + 7 instead of 50 + 35.
 - **C.** 57
- **28. A.** 30 + 1 = 31

$$\begin{array}{r}
186 \\
-180 \\
6
\end{array}$$
(30 × 6)
$$\begin{array}{r}
-6 \\
(1 × 6)
\end{array}$$

$$-12 (4 \times 3)$$

29. A. 684 -630 $\overline{54}$ (9×70) $\overline{-54}$ (9×6)

$$70 + 6 = \overline{(76)}$$

B. 896 $-800 (100 \times 8)$ $-80 (100 \times 8)$ $-80 (10 \times 8)$ $-16 (2 \times 8)$ $0 (10 \times 8)$

$$100 + 10 + 2 = \boxed{112}$$

30. A. Possible response:

$$500 \div 5 = 100$$

235 more to divide

$$200 \div 5 = 40$$

35 more to divide

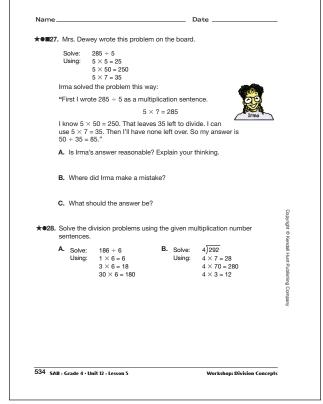
$$35 \div 5 = 7$$

$$100 + 40 + 7 = \boxed{147}$$

B. $3200 \div 8 = 400$ 26 more to divide

 $26 \div 8 = 3 \text{ R2}$

The answer is (403 R2)



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Name			r	Date	
●■29.	Solve the division problems using the given number sentences. Circle the quotient.				
	A. Solve: Using:	9) 684 9 × 7 = 63 9 × 70 = 630 9 × 8 = 72 9 × 80 = 720 9 × 4 = 36 9 × 6 = 54	B. Solve: Using:	896 ÷ 8 1 × 8 = 8 10 × 8 = 80 100 × 8 = 800 2 × 8 = 16	
■30.		umber sentences ; i.		solve the division probler plain your reasoning. Circ 126	
Copyright © Kendali Hurti Publishing Company	Show the no the quotient	umber sentences ; i.	you used and exp	plain your reasoning. Circ	