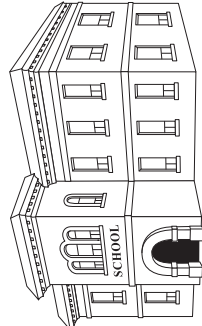


Activity Page:

The *Student Activity Page* uses pictures and instructional graphics to connect hands-on activities with more abstract representations of the math concept.

Find the Pattern

Pedro and Sam both walk to school.
Sam lives $\frac{1}{3}$ of a mile from school.
Pedro lives $\frac{2}{6}$ of a mile from school.
Who lives closer to school?



$$\frac{1}{3}$$

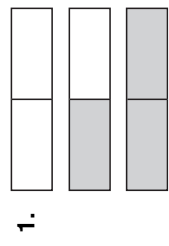


$$\frac{2}{6}$$

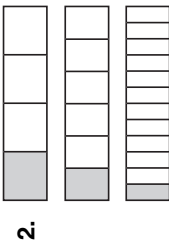
$\frac{1}{3}$ and $\frac{2}{6}$ have the same parts shaded. The distances are _____.

Use fraction bars to decide.

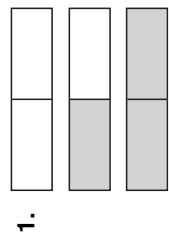
These fraction bars have been sorted into groups by some way they are alike or similar. Guess the similarity.



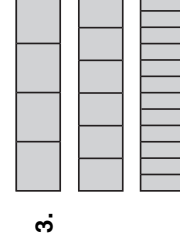
Similarity: _____



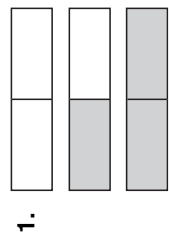
Similarity: _____



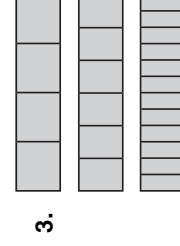
Similarity: _____



Similarity: _____

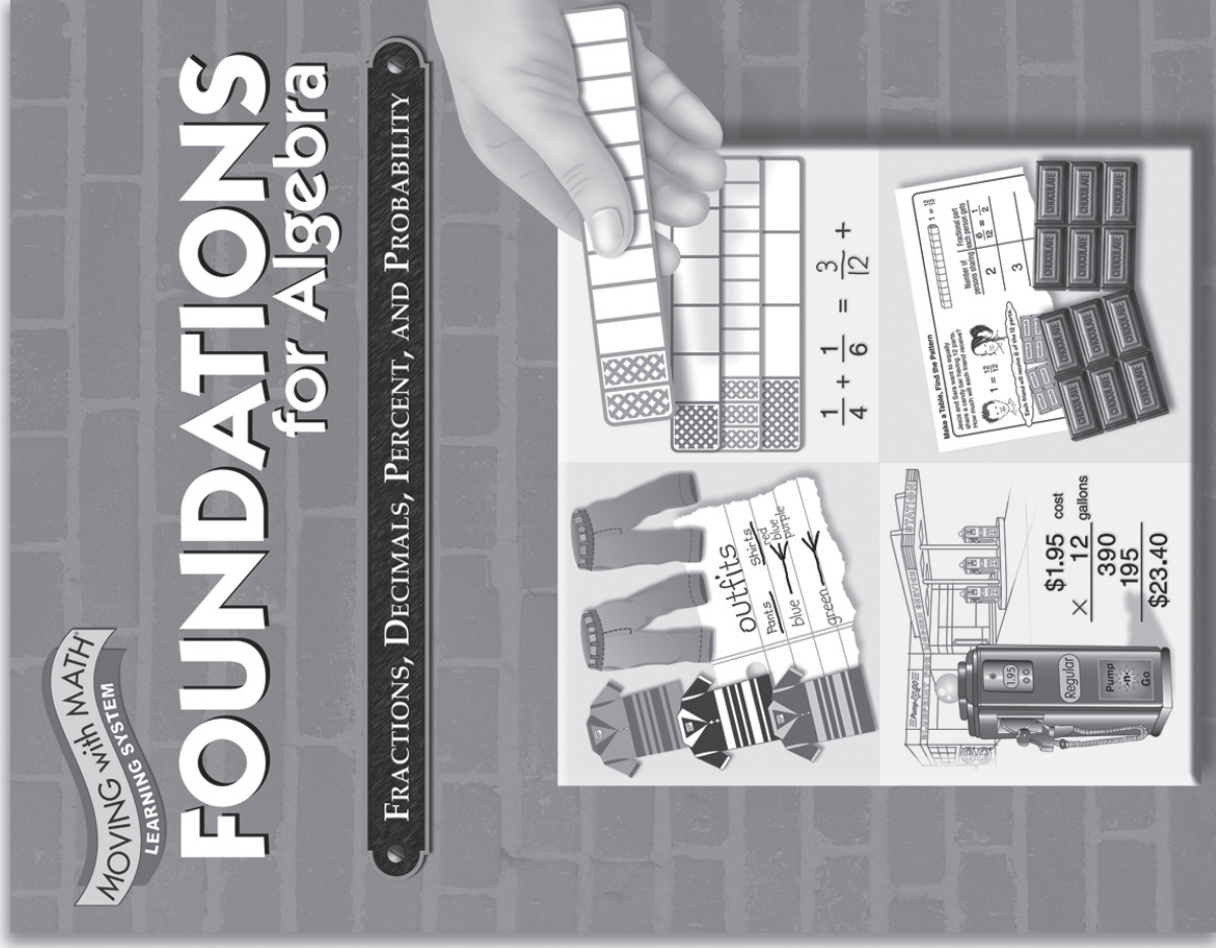


Similarity: _____



Similarity: _____

Foundations for Algebra IM2 Fractions, Decimals, Percent, and Probability Student Book



Lesson 1
Review 1 (in the back of the Student Book)
Objective: To introduce the concept of a fraction as a whole divided into parts of equal size. To name the fractional part of a set. To relate a fraction to a division problem. To show that fractional parts need not be congruent. To name fractions from fraction bars. To identify similarities and differences among fraction bars. Materials: Clay, scored crackers, zippered bags, geoboards, overhead geoboard, Fraction Bars®, overhead Fraction Bars® (optional), Student Math Glossary (Master 15), Vocabulary Cards (Master 16)
Lesson Plan pages: 2-4
Student Book pages: 2-4
Skill Builders 11-1, 11-2, 11-3, 11-6 (Make copies from the <i>Skill Builders</i> section of this Teacher Manual)
What's My Secret game, Lesson Plans p. 4
Journal Prompt, Student Book p. 3 Test Prep, Student Book p. 2

Daily Reviews

Each day begins with a 5-question Daily Review found at the end of the Student Book. Students record results on the back inside cover of their books.

Name _____



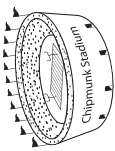
1. What digit is in the ten millions place?
2 (Obj. 1)

321,856,470

2. Write the number for three hundred fifty-four thousand seven hundred in the box.
354,700 (Obj. 2)

three hundred fifty-four thousand seven hundred

3. A stadium sold 17,350 tickets to a baseball game. What is this number rounded to the nearest thousand?
17,000 (Obj. 3)



X Write as a standard numeral.

$7^2 = \square$
49 (Obj. 4)

5. What number goes in the box?
 $(3 \times 2) \times 5 = 3 \times (\square \times 5)$
2 (Obj. 5)

© Math Teachers Press, Inc. Reproduction is strictly prohibited.

Review 1

IM2 Daily Reviews

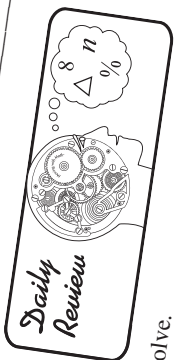
Record the results from your Daily Reviews here. "Obj." shows which objective that problem covered.

	Review 1	Review 2	Review 3	Review 4	Check 1 Point
1	Obj. 1 (SB 1-1)	Obj. 6 (SB 6-1)	Obj. 43 (SB 43-1)	Obj. 45 (SB 45-6)	1 Obj. 11 (SB 11-1) 6 Obj
2	Obj. 2 (SB 2-1)	Obj. 7 (SB 7-1)	Obj. 44 (SB 44-1)	Obj. 46 (SB 46-1)	2 Obj. 11 (SB 11-2) 7 Obj
3	Obj. 3 (SB 3-1)	Obj. 8 (SB 8-1)	Obj. 11 (SB 11-1)	Obj. 11 (SB 11-4)	3 Obj. 11 (SB 11-3) 8 Obj
4	Obj. 4 (SB 4-1)	Obj. 9 (SB 9-1)	Obj. 11 (SB 11-2)	Obj. 12 (SB 12-1)	4 Obj. 11 (SB 11-4) 9 Obj
5	Obj. 5 (SB 5-1)	Obj. 10 (SB 10-1)	Obj. 11 (SB 11-3)	Obj. 12 (SB 12-1)	5 Obj. 11 (SB 11-4) 10 Obj
	# Correct	# Correct	# Correct	# Correct	
	Review 6	Review 7	Review 8	Review 9	Check 2
1	Obj. 49 (SB 49-1)	Obj. 50 (SB 50-1)	Obj. 56 (SB 56-1)	Obj. 59 (SB 59-1)	1 Obj. 13 (SB 13-2) 6 Obj
	Obj. 13 (SB 13-2)	Obj. 16 (SB 16-2)	Obj. 16 (SB 16-2)	Obj. 17 (SB 17-2)	2 Obj. 14 (SB 14-2) 7 Obj
	Obj. 16 (SB 16-2)	Obj. 16 (SB 16-2)	Obj. 17 (SB 17-1)	Obj. 17 (SB 17-3)	3 Obj. 15 (SB 15-1) 8 Obj
	Obj. 17 (SB 17-1)	Obj. 17 (SB 17-1)	Obj. 17 (SB 17-1)	Obj. 17 (SB 17-3)	4 Obj. 16 (SB 16-1) 9 Obj
	Obj. 17 (SB 17-1)	Obj. 17 (SB 17-1)	Obj. 17 (SB 17-3)	Obj. 17 (SB 17-3)	5 Obj. 16 (SB 16-2) 10 Obj
	# Correct	# Correct	# Correct	# Correct	
	Review 13	Review 14	Review 15	Review 16	Check 3
1	Obj. 5 (SB 5-2)	Obj. 45 (SB 45-4)	Obj. 18 (SB 18-4)	Obj. 18 (SB 18-4)	1 Obj. 18 (SB 18-4) 6 Obj
2	Obj. 19 (SB 19-3)	Obj. 19 (SB 19-3)	Obj. 19 (SB 19-3)	Obj. 19 (SB 19-3)	2 Obj. 45 (SB 45-3) 7 Obj
3	Obj. 19 (SB 19-2)	Obj. 19 (SB 19-2)	Obj. 19 (SB 19-2)	Obj. 19 (SB 19-2)	3 Obj. 19 (SB 19-1) 8 Obj
4	Obj. 19 (SB 19-3)	Obj. 20 (SB 20-2)	Obj. 19 (SB 19-3)	Obj. 20 (SB 20-2)	4 Obj. 19 (SB 19-3) 9 Obj
5	Obj. 20 (SB 20-1)	Obj. 45 (SB 45-9)	Obj. 45 (SB 45-9)	Obj. 45 (SB 45-9)	5 Obj. 19 (SB 19-3) 10 Obj
	# Correct	# Correct	# Correct	# Correct	
	Review 18	Review 19	Review 20	Review 21	Check 4
1	Obj. 21 (SB 21-2)	Obj. 22 (SB 22-1)	Obj. 22 (SB 22-1)	Obj. 21 (SB 21-2)	1 Obj. 21 (SB 21-2) 6 Obj
2	Obj. 21 (SB 21-1)	Obj. 25 (SB 25-2)	Obj. 25 (SB 25-2)	Obj. 22 (SB 22-1)	2 Obj. 22 (SB 22-1) 7 Obj
3	Obj. 23 (SB 23-1)	Obj. 25 (SB 25-1)	Obj. 25 (SB 25-1)	Obj. 21 (SB 21-1)	3 Obj. 21 (SB 21-1) 8 Obj
4	Obj. 23 (SB 23-2)	Obj. 4 (SB 4-3)	Obj. 4 (SB 4-3)	Obj. 23 (SB 23-2)	4 Obj. 23 (SB 23-2) 9 Obj
5	Obj. 22 (SB 22-1)	Obj. 24 (SB 24-1)	Obj. 24 (SB 24-1)	Obj. 25 (SB 25-2)	5 Obj. 25 (SB 25-2) 10 Obj
	# Correct	# Correct	# Correct	# Correct	
	Review 23	Review 24	Review 25	Review 26	Check 5
1	Obj. 26 (SB 26-2)	Obj. 27 (SB 27-2)	Obj. 27 (SB 27-2)	Obj. 51 (SB 51-2)	1 Obj. 51 (SB 51-2) 6 Obj
2	Obj. 26 (SB 26-4)	Obj. 45 (SB 45-5)	Obj. 45 (SB 45-5)	Obj. 26 (SB 26-3)	2 Obj. 26 (SB 26-3) 7 Obj
3	Obj. 27 (SB 27-1)	Obj. 28 (SB 28-1)	Obj. 28 (SB 28-1)	Obj. 26 (SB 26-4)	3 Obj. 26 (SB 26-4) 8 Obj
4	Obj. 27 (SB 27-2)	Obj. 28 (SB 28-2)	Obj. 28 (SB 28-2)	Obj. 27 (SB 27-2)	4 Obj. 27 (SB 27-2) 9 Obj
5	Obj. 27 (SB 27-3)	Obj. 28 (SB 28-3)	Obj. 28 (SB 28-3)	Obj. 27 (SB 27-3)	5 Obj. 27 (SB 27-3) 10 Obj
	# Correct	# Correct	# Correct	# Correct	

Record results of Daily Reviews by marking an "X" next to questions/objectives. Write the **total correct** for each Daily H in the space provided. For practice related to missed objectives designated *Skill Builders* practice page (in the Skill Builder section of the Teacher Manual).

Name _____

Correct

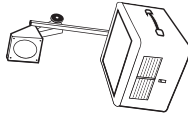


1. Solve.

$$365 + 42,180 + 6214 + 5 = \underline{48,764} \text{ (Obj. 6)}$$

2. The Hales want to save \$1275 for a family vacation. So far they have saved \$638. How much do they have left to save?
637 (Obj. 7)

A school bought 22 projectors. Each projector cost \$245. How much did the school spend on projectors?
5,390 (Obj. 8)



3. A box contains 84 gumdrops. If 12 friends share the gumdrops, how many will each friend get?
7 (Obj. 9)



78 (Obj. 10)

© Math Teachers Press, Inc. Reproduction is strictly prohibited.

Review 2

Name _____

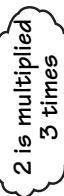
Reading and Evaluating Numbers in Exponential Form

Fran's study group is trying to find the prime factors of 9 and write them in exponential form if possible.

They find the prime factors of 9 using a factor tree.



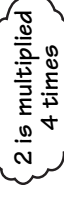
Prime Factors: 3, 3



$2 \times 2 \times 2 = 2^3$
 2^3 is read "two to the third power" or "two cubed."

2 is multiplied 3 times

$2 \times 2 \times 2 \times 2 = 2^4$
 2^4 is read "two to the fourth power."

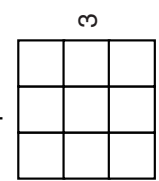


$2 \times 2 \times 2 \times 2 \times 2 = 2^5$
 2^5 is read "two to the fifth power."

2 is multiplied 5 times

They are multiplying the same factor more than once: 3×3

Fran can write the factors in exponential form: $3 \times 3 = 3^2$



The base is the repeated factor.

The exponent is the number of repetitions.

3^2 is read "3 to the second power" or "3 squared."

Write the numeral in exponential form.

- 3 to the fifth power = _____
- 5 squared = _____
- 4 to the second power = _____
- 6 to the fourth power = _____
- 7 cubed = _____
- 8 squared = _____

Write the words for each expression.

- $4^3 =$ _____
- $10^3 =$ _____
- $6^5 =$ _____
- $10^2 =$ _____
- $5^4 =$ _____
- $3^5 =$ _____

Write the factored form and evaluate.

- $10^4 =$ _____ \times _____ \times _____ = _____
- $6^3 =$ _____ \times _____ \times _____ = _____
- $2^5 =$ _____ \times _____ \times _____ \times _____ = _____
- $8^2 =$ _____ \times _____ = _____
- $5^4 =$ _____ \times _____ \times _____ \times _____ = _____
- $3^3 =$ _____ \times _____ \times _____ = _____
- $5^2 =$ _____ \times _____ = _____
- $7^3 =$ _____ \times _____ \times _____ = _____