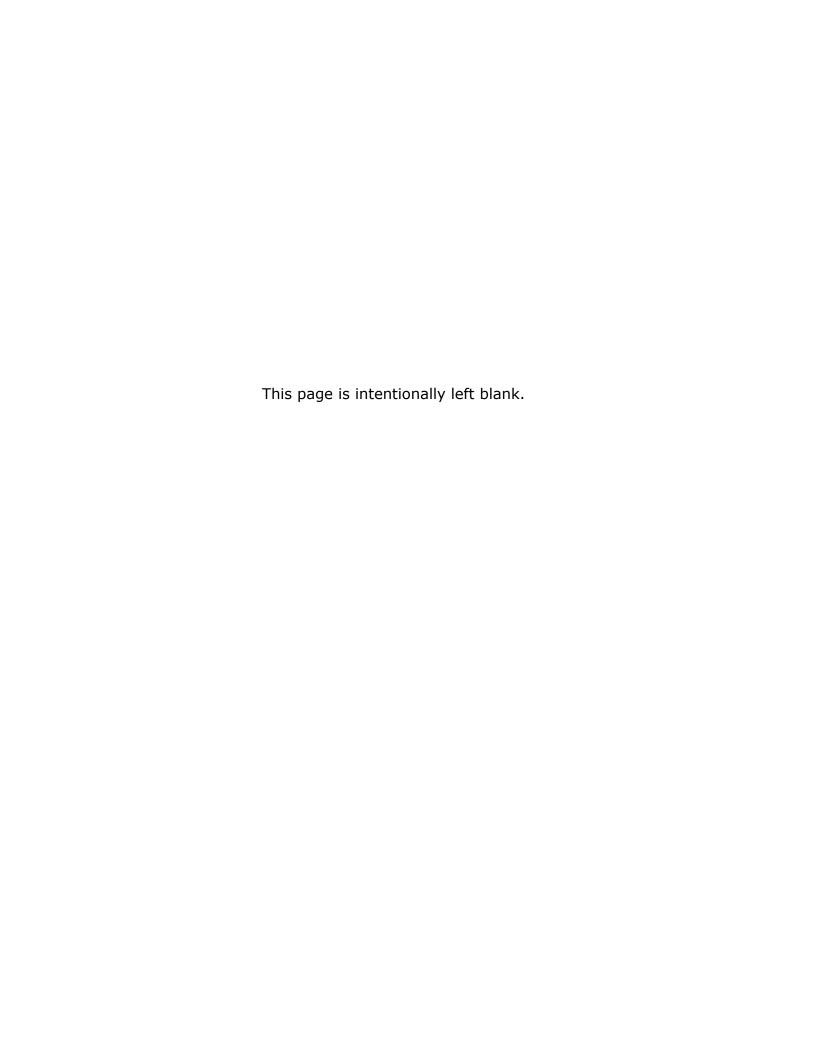
Closing the Distance: Grade 8 Mathematics

Teacher Edition

Reproducible Activity Masters and Student Pages

Product ID: 407-1880



Region 4 Education Service Center supports student achievement by providing educational products and services that focus on excellence, service, and children.

Published by Region 4 Education Service Center 7145 West Tidwell Road Houston, Texas 77092-2096 www.esc4.net

© 2016 by Region 4 Education Service Center. All rights reserved. Except as permitted under the United States Copyright Act of 1976, no part of this publication may be reproduced or distributed in any form or by any means, or stored in a database or retrieval system, without the prior written permission of the publisher.

ISBN-13: 978-1-937403-87-4

Printed in the United States of America

Acknowledgments

Region 4 Education Service Center would like to acknowledge the talent and expertise of those who contributed to the development of this book. Their dedication to our core values of excellence in service for children made possible the creation of this resource to assist educators in providing quality, effective instruction for all students.

Authors Design Team
Sana Brennan Dave Martinez
Sherry Olivares
Yvette Henry
Julie Horn
Patti Nicodemo
Shelley Bolen-Abbott
Sharon Benson, Ed.D.

Table of Contents

Int	roduction	i−x
	What is Closing the Distance?	
	What is in a lesson found in <i>Closing the Distance</i> ?	
Ord	lering Real Numbers	
	Lesson Notes	
	Small-Group Intervention Suggestions	
	Answer Keys	7–12
	Activity Masters and Student Pages	Digital Access
Line	ear Relationships	13–24
	Lesson Notes	
	Small-Group Intervention Suggestions	
	Answer Keys	
	Activity Masters and Student Pages	
	Activity Masters and Student rages	Digital Access
Equ	uations and Inequalities	25-37
	Lesson Notes	26-28
	Small-Group Intervention Suggestions	29-30
	Answer Keys	
	Activity Masters and Student Pages	
Slo	pe and y-Intercept	39–52
0.0	Lesson Notes	
	Small-Group Intervention Suggestions	
	Answer Keys	
	Activity Masters and Student Pages	
		-
Dila	ations	
	Lesson Notes	
	Small-Group Intervention Suggestions	
	Answer Keys	
	Activity Masters and Student Pages	Digital Access
Pvt	hagorean Theorem	67–79
- , -	Lesson Notes	
	Small-Group Intervention Suggestions	
	Answer Keys	
	Activity Masters and Student Pages	Digital Access
	TOUTHING TOUSENS AND SUBJECT TO A STATE OF THE STATE OF T	THE PROPERTY OF THE PROPERTY O

Surface Area and Volume	81-93
Lesson Notes	
Small-Group Intervention Suggestions	
Answer Keys	
Activity Masters and Student Pages	Digital Access
Transformations	95–114
Lesson Notes	
Small-Group Intervention Suggestions	100-103
Answer Keys	
Activity Masters and Student Pages	
Trend Lines	115–130
Lesson Notes	
Small-Group Intervention Suggestions	119–120
Answer Keys	
Activity Masters and Student Pages	
Simple and Compound Interest	131–144
Lesson Notes	
Small-Group Intervention Suggestions	
Answer Keys	
Activity Masters and Student Pages	



A resource that serves as an intervention for students who are close to success on the State of Texas Assessments of Academic Readiness (STAAR®)



A resource that integrates related TEKS to provide a review of mathematics concepts and skills, paired with opportunities for rigorous mathematical discourse



A resource of classroom-ready 5E activities that keeps students engaged in a positive, productive manner through strategies, including modeling, card sorts, matching, cooperative learning, and analysis of student work



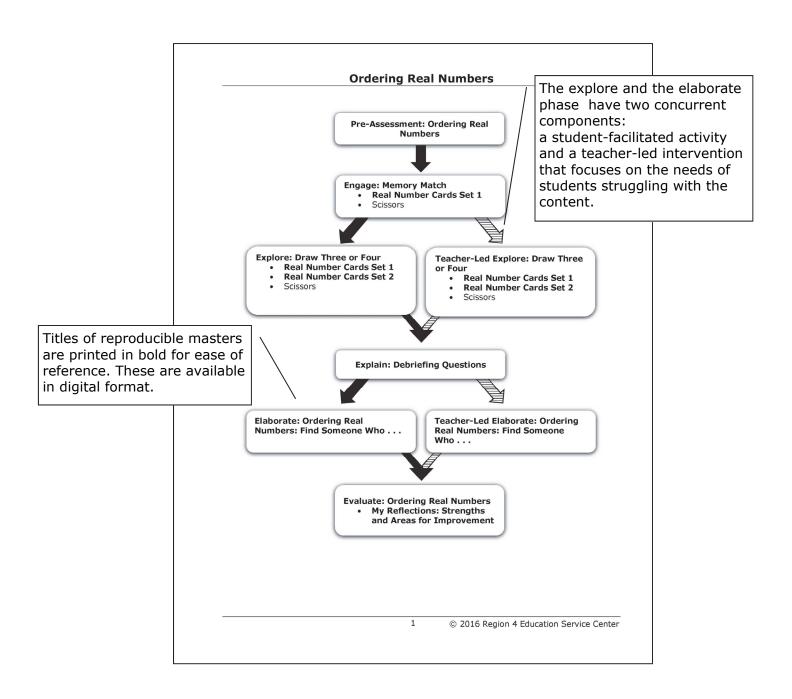
A resource that provides an opportunity for students to track their progress with an analysis of strengths and areas to improve within each lesson



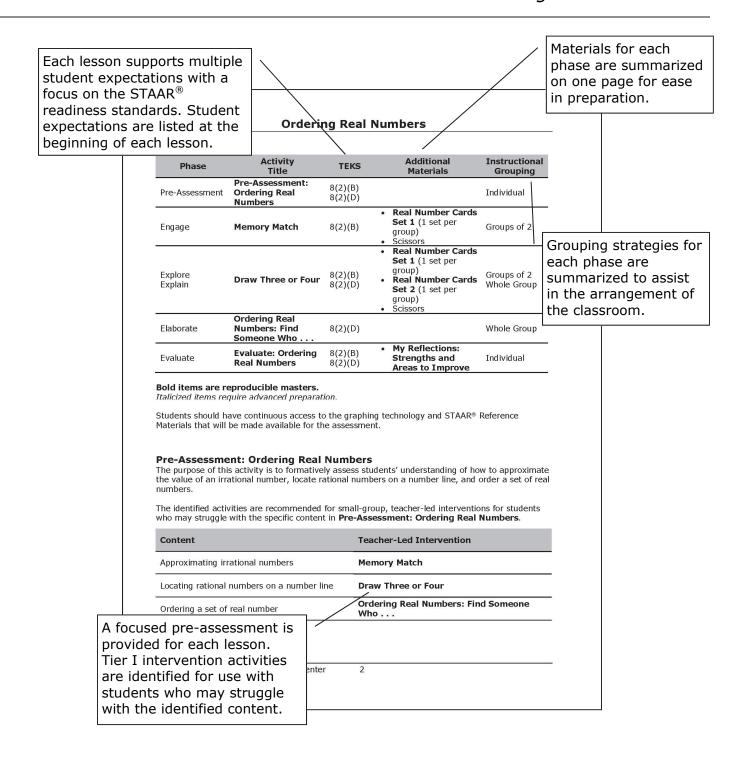
A resource that includes a pre-assessment to provide teachers and students quick and timely information on student readiness for the activities in the lesson and identifies students that may benefit from a small-group intervention setting



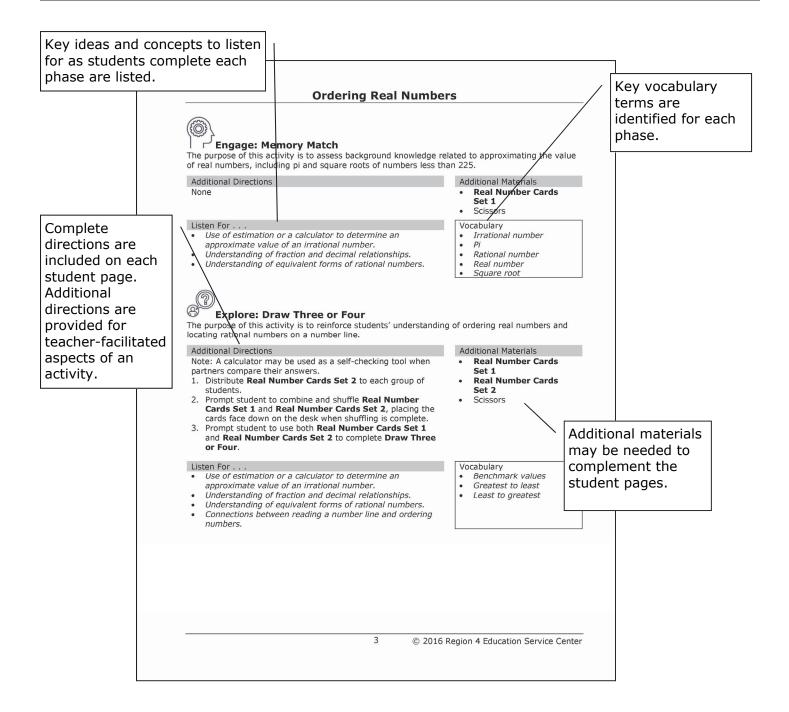
A resource that includes teacher-led interventions for students who may struggle with specific content



What is in a lesson found in Closing the Distance?



What is in a lesson found in Closing the Distance?



Ordering Real Numbers

The explain phase includes debriefing questions to guide class discussion for key understandings and skills found in the activities.

Explain: Debriefing Questions

The purpose of this activity is to highlight key understandings and skills applied in the Explore phase of this lesson.

- How can you determine which benchmark values, such as halves or fourths, may be helpful
- when creating a number line for ordering real numbers? How can you compare two numbers that are written in two different forms, such as a multiples of pi and a fraction or a square root and a decimal?

Elaborate: Ordering Real Numbers: Find Someone Who . . .

The purpose of this activity is to reinforce students' understanding of ordering real numbers.

Additional Materials

Listen For . .

- Use of benchmarks to compare and order real numbers. Use of estimation or a calculator to compare and order real numbers.
- Understanding of real numbers and how they are ordered.

Vocabulary

None

Benchmark values

- Greatest to least
- Least to greatest

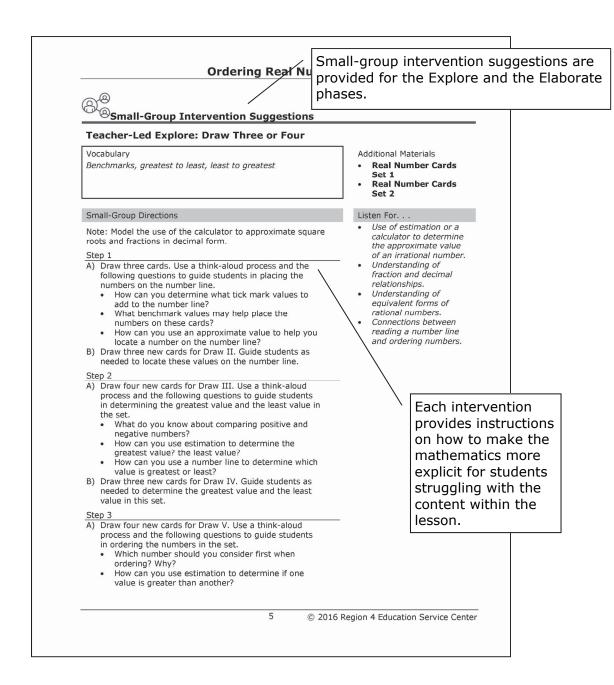
Evaluate: Ordering Real Numbers

The purpose of this activity is to assess students' understanding of how to approximate values for real numbers, locate real numbers on a number line, and order a set of real numbers.

Question	TEKS	Correct Answer
1	8(2)(D)	С
2	8(2)(D)	С
3	8(2)(D)	D
4	0(3)(D)	Р

Each selected-response item is labeled with the content student expectation.

© 2016 Region 4 Education Service Center



Each lesson Name: provides an opportunity for My Reflections: Strengths and Areas for Improvement student reflection Place a plus sign for each statement you feel is a strength after completing each lesson activity. as the student self-assesses numbers I can approximate the value of irrational numbers. strengths for I can accurately perform all computations needed for this activity. I can locate rational number approximations on a number each phase of can order a set of real the lesson. Following this self-assessment, students are prompted to note **Lesson Activity** what they are most proud of Memory Match and to set a goal to improve Draw Three or Four understanding. Ordering Real Numbers: Find Someone Who . . Evaluate: Ordering Real Numbers I am most proud . . . To Improve my understanding, I . . . © 2016 Region 4 Education Service Center This page is intentionally left blank.