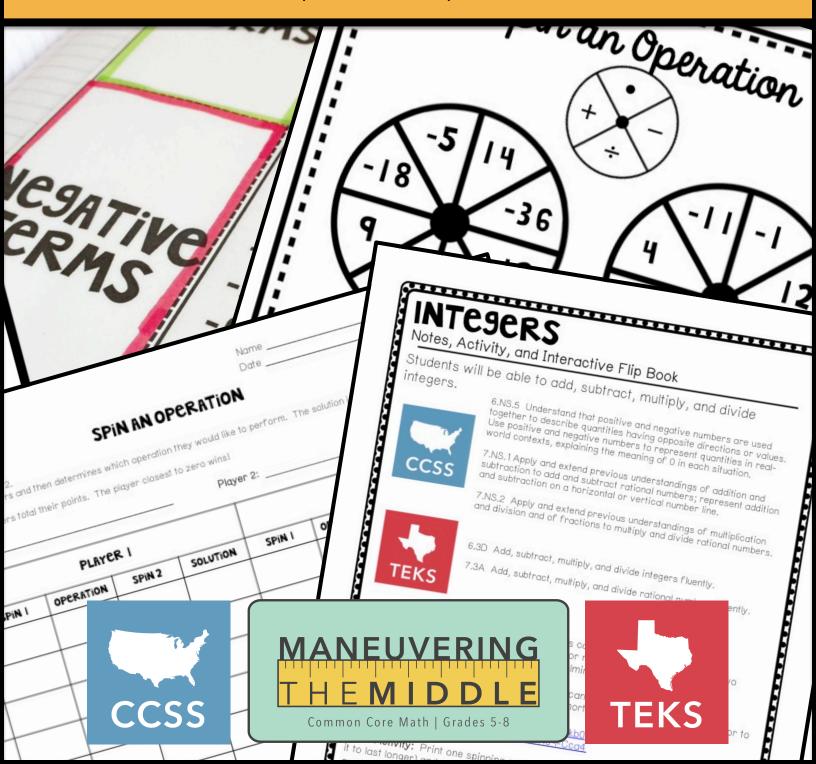
MIDDLE SCHOOL **Integer Objections** Notes, activity, flip book



INTEGERS Notes, Activity, and Interactive Flip Book

Students will be able to add, subtract, multiply, and divide integers.



6.NS.5 Understand that positive and negative numbers are used together to describe quantities having opposite directions or values. Use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation.

7.NS.1 Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line.

7.NS.2 Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers.



6.3D Add, subtract, multiply, and divide integers fluently.

7.3A Add, subtract, multiply, and divide rational numbers fluently.

Ideas for Implementation: Integer concepts can be so tricky for students! Comments like, "Is that a subtractions sign or negative sign?" or "I thought two negatives make a positive!" can be overwhelming and confusing.

Notes: The number line and counter models can be a bit tricky. If you are unfamiliar with them, I have included some short You Tube videos to watch prior to the lesson.

https://www.youtube.com/watch?v=y8sGY1uhkb0 https://www.youtube.com/watch?v=7x7H09-Cca4

Class Activity: Print one spinning mat (laminating or using a page protector will help it to last longer) and one recording sheet per partner. Students will spin two numbers, choose an operation, and record their work. The student who gets a total of closest to zero wins. *If a student spins two numbers whose result is not an integer, they need to round to the nearest integer.* This can also be played by varying the way a student wins. For example greater than 100, less than -5, closest to -20, etc.

Flip Book: As a class we would brainstorm the different terms that indicate an integer and then place them in the appropriate flap. Some words to consider: debit, credit, increase, decrease, withdrawal, rise, etc.

HELPFUL HINTS Student Handouts

A few ideas for organizing your curriculum and keeping things nice and neat.

BINDERS

Keep each unit in a separate binder, use the spine labels and covers to keep them looking nice and easy to find. I personally love 1.5" binders.

PA9E PROTECTORS

I place my originals in page protectors in chronological order. Any extra copies from that lesson I hole punch and place behind that page. When I need an extra or a student is missing something from *weeeeeeeks* ago, I can simply pull a copy out.

ANSWER KEYS

I highlight the edges of my answer keys or if I am really good print them on colored paper. It helps them to stand out and makes it easy to find on my desk, in a binder, by the document camera, etc. Plus, highlighter doesn't show up if you make a copy.

CARD STOCK

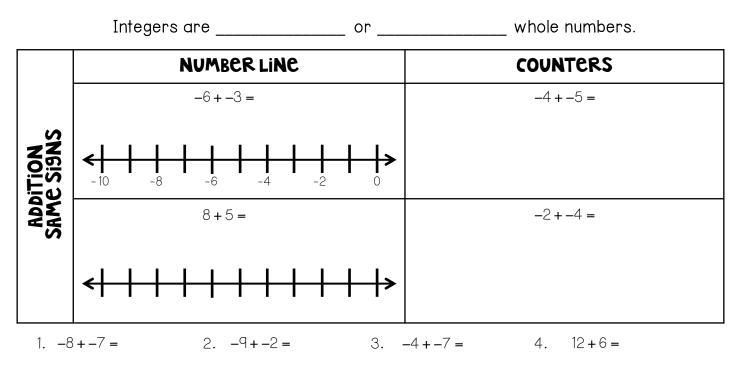
Card stock in a page protector makes an awesome divider. When I set up my dividers I include one for handouts, activities, assessments, and answer keys. Binder covers and spine labels have been included ©

Integers	
Student Handout	1

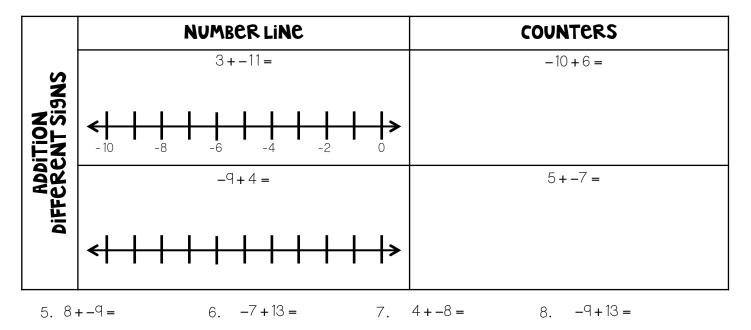
Name _____

Date

INTEGER OPERATIONS

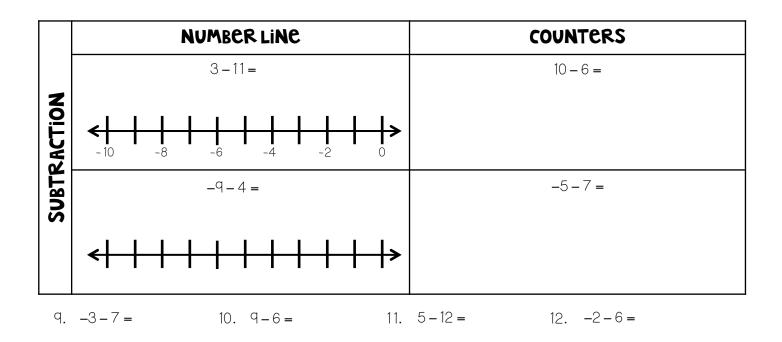


Add integers with the same sign by finding the _____. Keep the sign of the numbers.

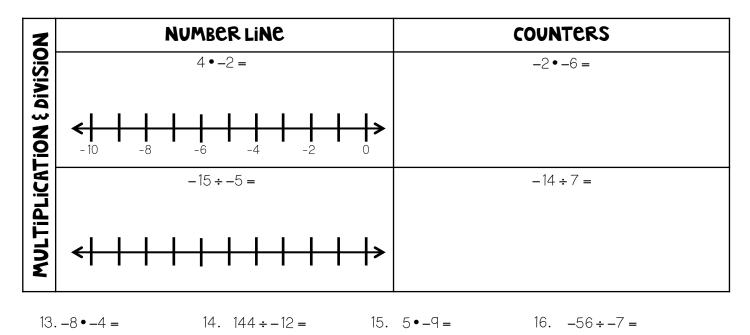


Add integers with different signs by ______ and keeping the sign of the number with the greatest absolute value. ©Maneuvering the Middle LLC, 2015

Pd



Subtract integers by rewriting the problem as ______.



When signs are the _____, the product/quotient is positive. When signs are _____, the product/quotient is negative.

Summarize today's lesson:

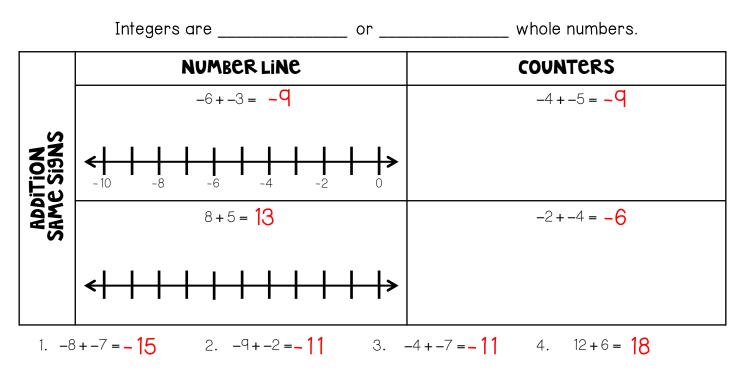
Integers	
Student Handout	1

Name _____ Date

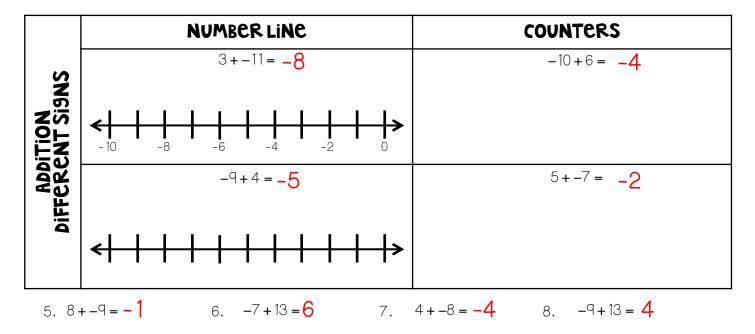
Pd____

KEY

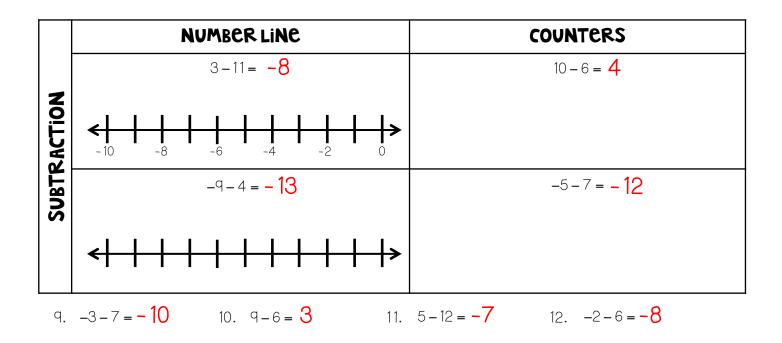
iNTEGER OPERATIONS



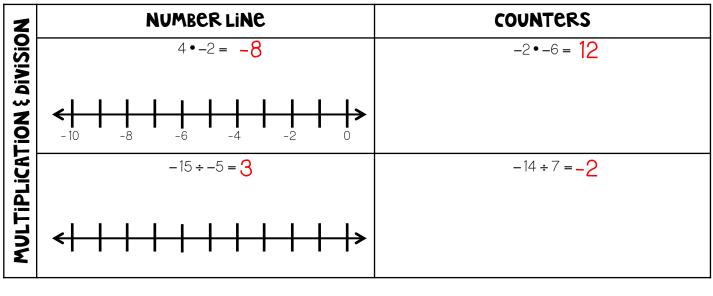
Add integers with the same sign by finding the _____. Keep the sign of the numbers.



Add integers with different signs by <u>Subtracting</u> and keeping the sign of the number with the greatest absolute value. ©Maneuvering the Middle LLC, 2015



Subtract integers by rewriting the problem as <u>addition</u>

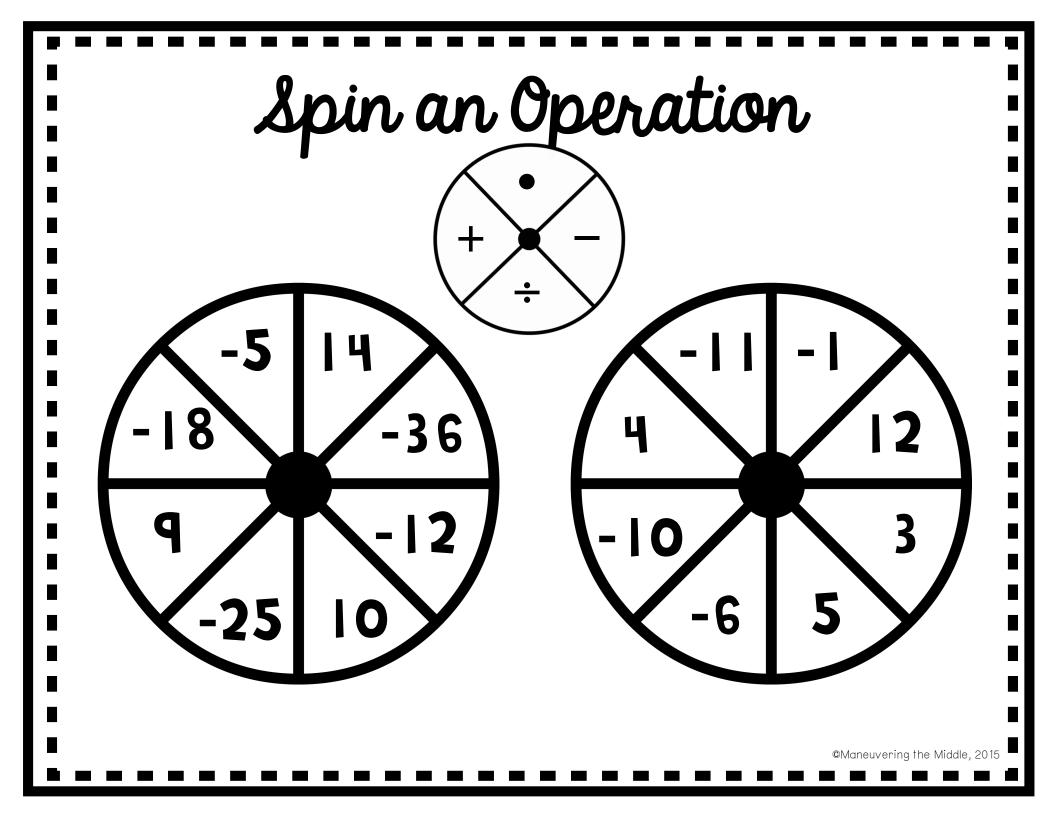


 $13. -8 \bullet -4 = 32 \qquad 14. \quad 144 \div -12 = -12 \qquad 15. \quad 5 \bullet -9 = -45 \qquad 16. \quad -56 \div -7 = 8$

When signs are the <u>same</u>, the product/quotient is positive. When signs are <u>different</u>, the product/quotient is negative.

Summarize today's lesson:

**This is a space for students to write 2-3 sentences about the lesson. It helps move new learning to long term memory.



Integers	
Recording	Sheet

Name		

Date _____

Pd

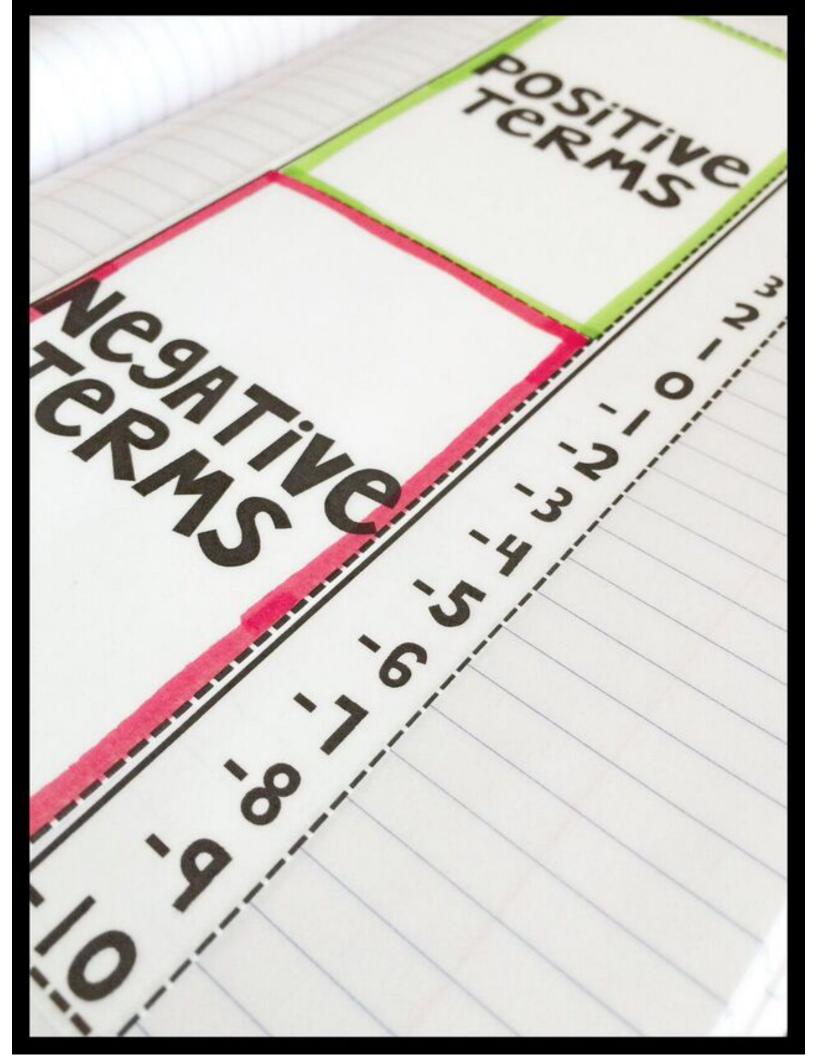
SPIN AN OPERATION

- 1. Determine who is player 1 and 2.
- 2. Each player spins both spinners and then determines which operation they would like to perform. The solution is the number of points for each round.
- 3. At the end of 6 rounds, players total their points. The player closest to zero wins!

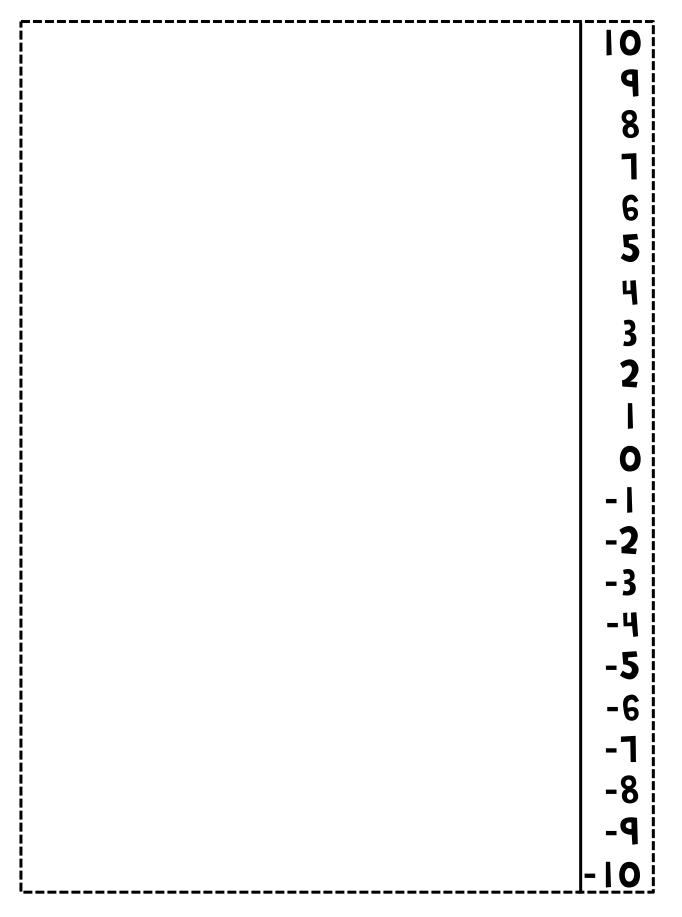
Player 1: _____

Player 2: _____

	PLAYER I			PLAYER 2				
	SPiN I	OPERATION	SPiN 2	SOLUTION	SPiN I	OPERATION	SPiN 2	SOLUTION
ROUND I								
ROUND 2								
ROUND 3								
ROUND 4								
ROUND 5								
ROUND 6								
TOTAL POINTS FROM ALL ROUNDS			TOTAL POINTS FROM ALL ROUNDS					



Print pages 2-3 double sided, one per student.

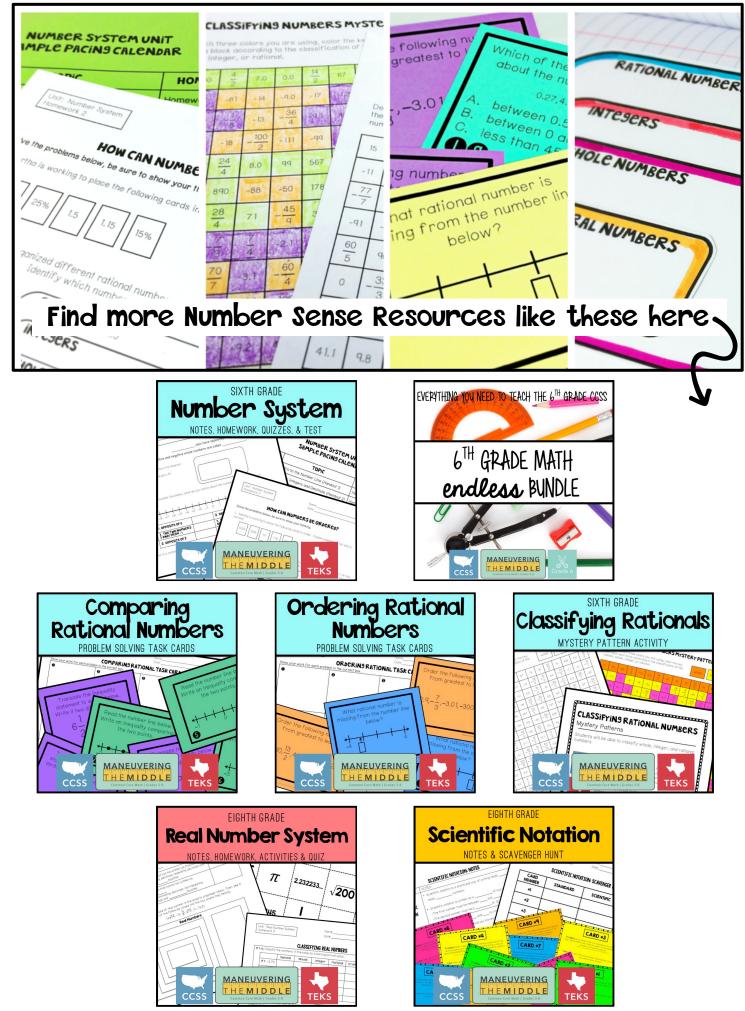


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Glue this side down.

NE9ATIVE TERMS

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graphic

