

Adding Integers with Models

Problem	Sum	With Counters	Number Line
1) $3 + (-5) =$			
2) $2 + (-8) =$			
3) $4 + (-4) =$			
4) $(-7) + 4 =$			
5) $(-6) + 5 =$			

What is the algorithm (rule) for adding integers with DIFFERENT signs?

Problem	Sum	With Counters	Number Line
1) $-5 + -2 =$			
2) $-2 + -3 =$			
3) $-2 + -4 =$			
4) $7 + 4 =$			
5) $-2 + -3 =$			

What is the algorithm (rule) for adding integers with the SAME signs?

More Adding Rational Numbers

If $a = -3$, $b = -5$ and $c = 5$, find the sum.

1) $c + b$ 2) $a + |b|$ 3) $|a + b|$

4) $a + b + c$ 5) $a + |c + b|$ 6) $a + c$

If $x = -10$, $y = 2$ and $z = -1$, find the sum.

7) $x + z$ 8) $|z| + x$ 9) $|x + y + z|$

10) $z + y$ 11) $x + y$ 12) $|x + y| + z$

Write an addition expression to describe each situation. Then find each sum.

13) **FOOTBALL** A team gains 20 yards. Then they lose 7 yards.

14) **MONEY** Roger owes his mom \$5. He borrows another \$6 from her.

15) **HOT AIR BALLOON** A balloon rises 340 feet into the air. Then it descends 130 feet.

16) **CYCLING** A cyclist travels downhill for 125 feet. Then she travels up a hill 50 feet.