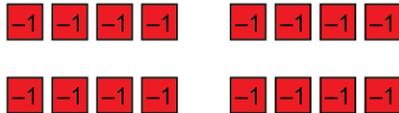


# Activity 9 Assessment

## Dividing Integers

### Dividing Integers

Interprets a given model of integer division



“Each red tile represents  $-1$ , so each group of red tiles represents  $-4$ . Altogether, the model represents  $-16$  and there are 4 groups of  $-4$ . So, this model shows the quotient  $(-16) \div (-4) = +4$ .”

Divides integers by using a model or inverse operations

“I want to determine  $(-10) \div (+2)$ . I know that  $(+2) \times (-5) = (-10)$ . Since multiplication and division are inverse operations, I know this means that  $(-10) \div (+2) = (-5)$ . So, the quotient is  $-5$ .”

Divides integers by using patterns and known relationships

“I know that when you divide a positive integer by a negative integer (or vice versa), the result is negative. When you divide a negative integer by another negative integer, the quotient is positive.”

Uses integer division to solve problems

Given the division statement  $(-48) \div \_\_ 8 = \_\_ 6$ , what signs would you put in the blanks to create the greatest possible quotient? To create the least possible quotient?

“The greatest possible quotient is  $+6$ . Since the dividend is negative, to get an answer of  $+6$ , the divisor should be negative as well:  
 $(-48) \div (-8) = (+6)$ .  
 The least possible quotient is  $-6$ . Since the dividend is negative, to get an answer of  $-6$ , the divisor should be positive:  
 $(-48) \div (+8) = (-6)$ .”

### Observations/Documentation