

## **Lesson 11: Different Partial Quotients**

• Let's use what we know about multiplication and place value to find quotients.

## Warm-up: Notice and Wonder: Ways to Record

What do you notice? What do you wonder?

Clare's strategy:

Jada's strategy:

364 ÷ 13					
13	×	10	=	130	364
12	×	$\overline{20}$	1	260	$\frac{-260}{104}$
IJ	~	20		200	- 65
13	×	5	=	65	39
17	~	C		20	
13	X	5	) —	צכ	0

$$130 \div 13 = 10$$
  

$$130 \div 13 = 10$$
  

$$65 \div 13 = 5$$
  

$$39 \div 13 = 3$$
  

$$364 \div 13 = 28$$

## **11.1: Division Expressions**

Take turns:

- 1. Choose a set of expressions that, when added together, is equal to  $308 \div 14$ . Not all expressions will be used.
- 2. Explain to your partner how you know that your cards represent a sum that is equal to  $308 \div 14$ .

(Pause for teacher directions.)

3. Choose one of the sets of expressions whose sum is equal to  $308 \div 14$  and use it to find the value of  $308 \div 14$ .



## **11.2: Choose Your Own Partial Quotients**

For each expression, choose one of the partial quotients and, beginning with that expression, find the value of the quotient.

1. 
$$360 \div 15$$
  
 $\circ 150 \div 15$   
 $\circ 300 \div 15$   
 $\circ 60 \div 15$   
2.  $945 \div 45$   
 $\circ 455 \div 45$   
 $\circ 450 \div 45$   
 $\circ 900 \div 45$   
3.  $992 \div 31$   
 $\circ 62 \div 31$   
 $\circ 341 \div 31$   
 $\circ 310 \div 31$ 

4. How did you decide which partial quotient to use to begin finding the quotient? Did you change your mind with any of the problems?