Name	Dato	
	Date	

Estimating Digits in a Quotient

1	Estimate the quotient:	1 908 -	36
т.	Latillate the quotient.	1,700 -	50.

2. Use the division algorithm and your estimate to find the quotient: 1	$1.908 \div 36$
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3. Use estimation to determine if $8,580 \div 78$ has a quotient in the 10s, 100s, or 1000s.

Complete the following steps for each problem:

- a. Estimate the quotient.
- b. Use the division algorithm to solve.
- c. Show a model that supports your work with the division algorithm.
- d. Check your work.
- 1. $3,312 \div 48$
- 2. $3,125 \div 25$
- 3. $1,344 \div 14$

Estimate the quotient: $1,908 \div 36$.

$$2,000 \div 40 = 50$$

Use the division algorithm and your estimate to find the quotient: $1,908 \div 36$.

Use estimation to determine if $8,580 \div 78 \ \text{has}$ a quotient in the 10s , 100s , or 1000s .

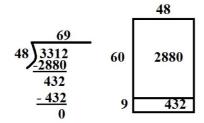
I would round 8,580 to 8,800 and 78 to 80. $8,800 \div 80 = 110$. I know that the quotient should be in the 100s.

Complete the following steps for each problem:

- Estimate the quotient.
- Use the division algorithm to solve.
- Show a model that supports your work with the division algorithm. c.
- Check your work.

1.
$$3,312 \div 48$$

$$3,500 \div 50 = 70$$



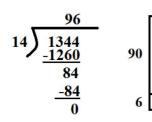
$$48\times 69=3,312$$

 $3,000 \div 30 = 100$

 $25 \times 125 = 3,125$

3. 1,344 ÷ 14

 $1,400 \div 14 = 100$



14

1260

84

 $14 \times 96 = 1,344$