Name Date Time

STUDY LINK 4•4

Division

Here is an example of the partial-quotients algorithm using an "at least...not more than" strategy.

$8\overline{)185}$		Begin estimating with multiples of 10.
		How many 8s are in 185? At least 10.
$-\ 80$	10	The first partial quotient. $10 * 8 = 80$
105		Subtract. 105 is left to divide.
		How many 8s are in 105? At least 10.
$-\ 80$	10	The second partial quotient. $10 * 8 = 80$
25		Subtract. 25 is left to divide.
		How many 8s are in 25? At least 3.
$-\ 24$	3	The third partial quotient. $3 * 8 = 24$
		Subtract. 1 is left to divide.
1	23	Add the partial quotients: $10 + 10 + 3 = 23$
↑	↑	
Remainder	**Quotient**	**Answer: 23 R1**

Solve.

1. $639 \div 9$

Answer: _____

2. $954 \div 18$

Answer: _____

3. 1,990 / 24

Answer: _____

4. 972 / 37

Answer: _____

5. Robert is making a photo album. 6 photos fit on a page. How many pages will he need for 497 photos? _____ pages

Practice

6. $2{,}746 + 68 =$ _____

Check: _____ − _____ = _____

7. $3{,}461 - 165 =$ _____

Check: _____ + _____ = _____