

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.
$\underline{- 80}$	10	How many 8s are in 185? At least 10.
$\underline{105}$		The first partial quotient. $10 * 8 = 80$
		Subtract. 105 is left to divide.
$\underline{- 80}$	10	How many 8s are in 105? At least 10.
$\underline{25}$		The second partial quotient. $10 * 8 = 80$
		Subtract. 25 is left to divide.
$\underline{- 24}$	<u>3</u>	How many 8s are in 25? At least 3.
		The third partial quotient. $3 * 8 = 24$
		Subtract. 1 is left to divide.
$\underline{1}$	23	Add the partial quotients: $10 + 10 + 3 = 23$
\uparrow	\uparrow	

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: _____ $+$ _____ $=$ _____