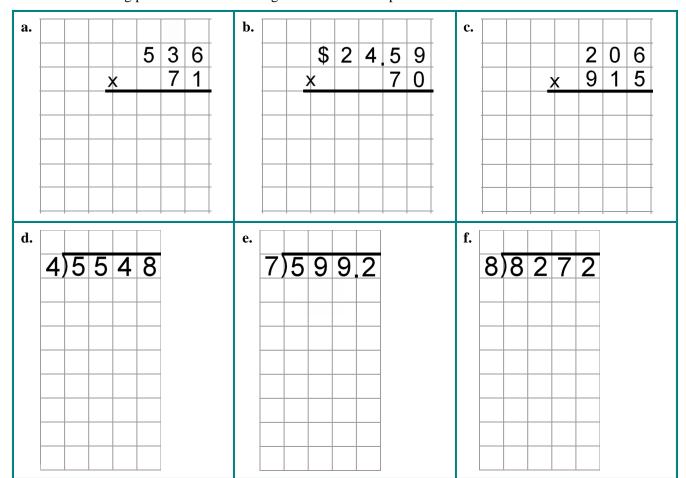
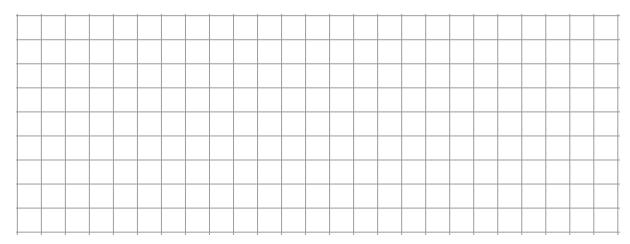
Review of the Four Operations 1

1. Use the following problems to review long division and multiplication.



2. How do you check the result of any division problem? (Hint: check the next page.)

Now, check your answers for 1. d, 1. e and 1. f.



_ 1	3				
<mark>6</mark>) 8	0	1	2	9	8
<u>- 6</u>					
	0				
<u>-1</u>	8				
	2				

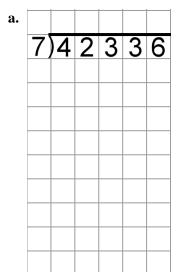
$$\begin{array}{r}
133 \\
\hline
6)801298 \\
\underline{-6} \\
20 \\
\underline{-18} \\
21 \\
\underline{-18} \\
3
\end{array}$$

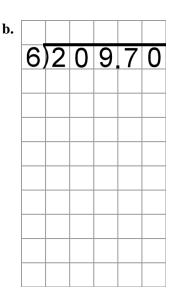
$$\begin{array}{r}
133549 \\
6)801298 \\
\underline{-6} \\
20 \\
\underline{-18} \\
21 \\
\underline{-18} \\
32 \\
\underline{-30} \\
29 \\
\underline{-24} \\
58 \\
\underline{-54} \\
4
\end{array}$$

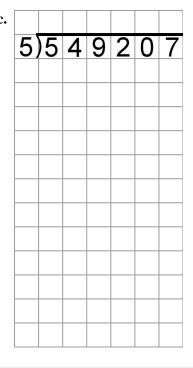
Long division works the same way when there are several digits in the dividend (the big number we divide into). Study the example carefully.

The answer we get is $801,298 \div 6 = 133,549 \text{ R4}$.

3. Divide using long division.







To check a division result that has a remainder, multiply the result by the divisor, and then *add* the remainder. You should get the original dividend.

In this case, we multiply and add: $6 \times 133,549 + 4 = 801,298$, so it checks.

Remember that the remainder is always less than the divisor; if it isn't, you can continue the division!

4. Check each division by multiplying and adding. If the division is incorrect, correct it.

a.
$$437 \div 6 = 72 \text{ R5}$$

b.
$$2,045 \div 3 = 681 \text{ R}1$$

- 5. A bakery bagged 177 buns into bags of eight, getting 21 bags, and nine buns left over. The division was: $177 \div 8 = 21 \text{ R9}$. Jessica *immediately* spotted this was wrong (without calculating anything). How did she do that?
- 6. A large school has 542 sixth graders. How would you divide them into classes as evenly as possible, with about 25 students per class?
- 7. Divide, using two-digit divisors. You can build a multiplication table for the divisor to help you. Lastly, check your result.

check your result.		
2 × 45 = 90	a. 45)4005	× 4 5
2 × 75 = 150	ъ. 75)1 9.8 7 5	× 7 5