

Reteach*Division Patterns*

A **quotient** is the result of dividing one number by another. A **dividend** is the number that is divided. The **divisor** is the number by which the dividend is divided.

Basic facts and patterns can help you divide by multiples of 10. Look at the patterns below:

$28 \div 7 = 4$	← basic fact →	$28 \div 7 = 4$
$280 \div 7 = 40$		$280 \div 70 = 4$
$2,800 \div 7 = 400$		$2,800 \div 700 = 4$
$28,000 \div 7 = 4,000$		$28,000 \div 7,000 = 4$

Find $420 \div 60$.

Since 420 is a multiple of 10, you can use the basic fact and continue the pattern:

$$42 \div 6 = 7$$

$$420 \div 60 = 7$$

You can also cross out zeros to make division easier:

$$420 \div 60 =$$

$$42 \div 6 = 7$$

Be sure to cross out the same number of zeros in the dividend and divisor.

Divide mentally.

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|----------------------------|-----------------------------|----------------------------|
| 1. $630 \div 7 =$ _____ | 2. $810 \div 90 =$ _____ | 3. $480 \div 4 =$ _____ |
| 4. $240 \div 20 =$ _____ | 5. $550 \div 50 =$ _____ | 6. $400 \div 8 =$ _____ |
| 7. $360 \div 6 =$ _____ | 8. $800 \div 10 =$ _____ | 9. $270 \div 30 =$ _____ |
| 10. $4,900 \div 7 =$ _____ | 11. $5,600 \div 80 =$ _____ | 12. $6,300 \div 9 =$ _____ |
| 13. $2,500 \div 5 =$ _____ | 14. $1,600 \div 20 =$ _____ | 15. $900 \div 3 =$ _____ |