



One-digit number
divide
four-digit number

M n h a n g E x p e r i m e n t a l P r i m a r y
S c h o o l , S h a n g h a i

W a n g
Z h o n g y a n

13.Nov

memory:

$1 \times 1 = 1$								
one one is one								
$1 \times 2 = 2$	$2 \times 2 = 4$							
one two is two	two two is four							
$1 \times 3 = 3$	$2 \times 3 = 6$	$3 \times 3 = 9$						
one three is three	two three is six	three three is nine						
$1 \times 4 = 4$	$2 \times 4 = 8$	$3 \times 4 = 12$	$4 \times 4 = 16$					
one four is four	two four is eight	three four is twelve	four four sixteen					
$1 \times 5 = 5$	$2 \times 5 = 10$	$3 \times 5 = 15$	$4 \times 5 = 20$	$5 \times 5 = 25$				
one five is five	two five is ten	three five fifteen	four five twenty	five five twenty-five				
$1 \times 6 = 6$	$2 \times 6 = 12$	$3 \times 6 = 18$	$4 \times 6 = 24$	$5 \times 6 = 30$	$6 \times 6 = 36$			
one six is six	two six is twelve	three six eighteen	four six twenty-four	five six thirty	six six thirty-six			
$1 \times 7 = 7$	$2 \times 7 = 14$	$3 \times 7 = 21$	$4 \times 7 = 28$	$5 \times 7 = 35$	$6 \times 7 = 42$	$7 \times 7 = 49$		
one seven is seven	two seven fourteen	three seven twenty-one	four seven twenty-eight	five seven thirty-five	six seven forty-two	seven seven forty-nine		
$1 \times 8 = 8$	$2 \times 8 = 16$	$3 \times 8 = 24$	$4 \times 8 = 32$	$5 \times 8 = 40$	$6 \times 8 = 48$	$7 \times 8 = 56$	$8 \times 8 = 64$	
one eight is eight	two eight sixteen	three eight twenty-four	four eight thirty-two	five eight forty	six eight forty-eight	seven eight fifty-six	eight eight sixty-four	
$1 \times 9 = 9$	$2 \times 9 = 18$	$3 \times 9 = 27$	$4 \times 9 = 36$	$5 \times 9 = 45$	$6 \times 9 = 54$	$7 \times 9 = 63$	$8 \times 9 = 72$	$9 \times 9 = 81$
one nine is nine	two nine eighteen	three nine twenty-seven	four nine thirty-six	five nine forty-five	six nine fifty-four	seven nine sixty-three	eight nine seventy-two	nine nine eighty-one

Review 1. calculate mentally.

$$\begin{aligned}(1) \quad 3 \times 5 &= 15 \\ 4 \times 6 &= 24 \\ 9 \times 2 &= 18\end{aligned}$$

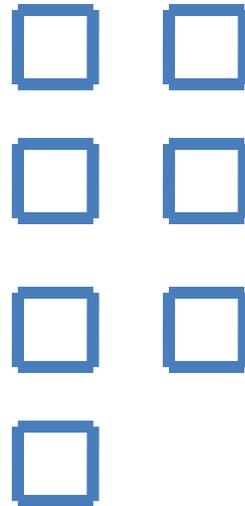
$$\begin{aligned}(2) \quad 15 - 8 &= 7 \\ 27 - 24 &= 3 \\ 32 - 28 &= 4\end{aligned}$$

$$\begin{aligned}(3) \quad 16 \div 2 &= 8 \\ 36 \div 5 &= 7r1 \\ 27 \div 6 &= 4r3\end{aligned}$$

$$\begin{aligned}(4) \quad 900 \div 3 &= 300 \\ 160 \div 2 &= 80 \\ 240 \div 4 &= 60\end{aligned}$$

Review 2. calculate by long column form and use the simple picture to explain the process.

$$3 \overline{)734}$$



For each place: **divide, multiply, subtract, and compare;**

Then bring down the next digit in the dividend.

Research1: 3-digit becomes 4-digit, can you work it out?

$$\begin{array}{r} 244\boxed{8} \\ 3 \overline{) 7345} \\ \underline{6} \\ 13 \\ \underline{12} \\ 14 \\ \underline{12} \\ 2\boxed{5} \\ \boxed{2}\boxed{4} \\ \hline \boxed{1} \end{array}$$

$$7345 \div 3 = ?$$

Start from thousands place, for each place: **divide, multiply, subtract, and compare;**

Then bring down the next digit in the dividend.

Practice1: use the long column form to calculate

$$4 \overline{)5304}$$

Research2:

If I want to get a 3-digit quotient, How should I change the number5?

$$\begin{array}{r} \square\square\square\square \\ 4 \overline{)5304} \end{array}$$

$$\begin{array}{r} \square\square\square \\ \textcircled{4} \overline{)3304} \end{array}$$

$$\begin{array}{r} \square\square\square \\ \textcircled{4} \overline{)2304} \end{array}$$

$$\begin{array}{r} \square\square\square \\ \textcircled{4} \overline{)1304} \end{array}$$

Practice2:Predict

	Number of digits in quotient
$7120 \div 4$ $7 > 4$	4 digits
$4316 \div 6$ $4 < 6$	3 digits
$9002 \div 5$ $9 > 5$	4 digits
$6185 \div 6$ $6 = 6$	4 digits

challenge:

$$3 \overline{)46704}$$

Work after class:

1. Recite the times table;

2. Use the long column form to calculate.

$$5 \overline{)7605}$$

$$7 \overline{)5736}$$

$$6 \overline{)6027}$$