

8.Nov

**One-digit number
divide**

two-digit number(1)

Prepare for division: Multiplication

$1 \times 1 = 1$								
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 is 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 is fifteen	four five is twenty	five five is 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 is eighteen	four six is twenty-four	five six is thirty	six six is 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 is fourteen	three seven is twenty-one	four seven is twenty-eight	five seven is thirty-five	six seven is forty-two	seven seven is 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 is sixteen	three eight is twenty-four	four eight is thirty-two	five eight is forty	six eight is forty-eight	seven eight is fifty-six	eight eight is 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 is eighteen	three nine is twenty-seven	four nine is thirty-six	five nine is forty-five	six nine is fifty-four	seven nine is sixty-three	eight nine is seventy-two	nine nine is eighty-one

$$4 \times 5 = 20 \quad 9 \times 3 = 27 \quad 6 \times 4 = 24$$

$$4 \times \boxed{7} = 28 \quad 7 \times \boxed{3} = 21$$

$$\boxed{2} \times 8 < 22 \quad \boxed{5} \times 6 < 33$$

1.work these out mentally.

$10 - 4 = 6$

$12 - 4 = 8$

$32 - 24 = 8$

Right: $12 - 4 = 8$

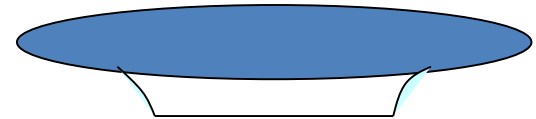
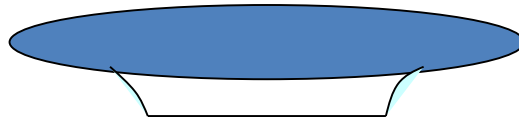
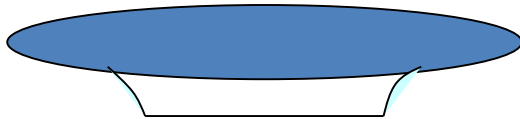
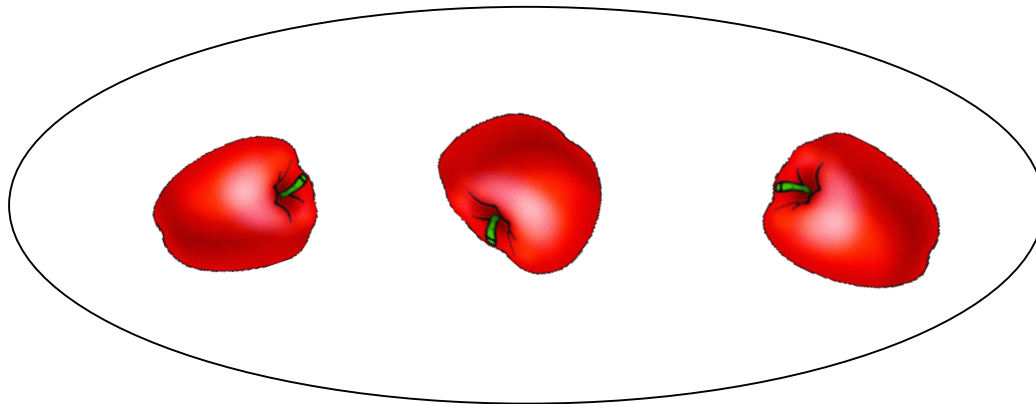
$20 - 20 = 0$

wrong: $4 - 2 = 2$

$30 - 20 = 10$

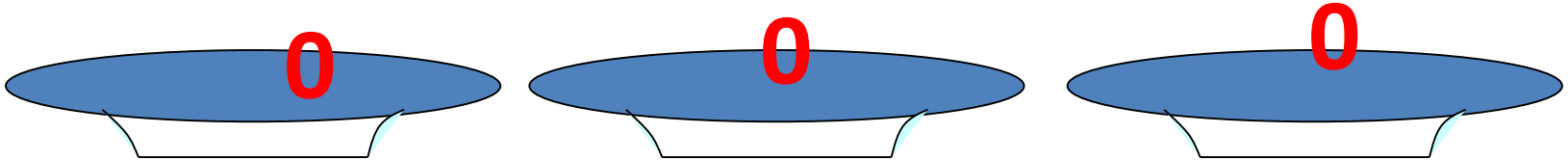
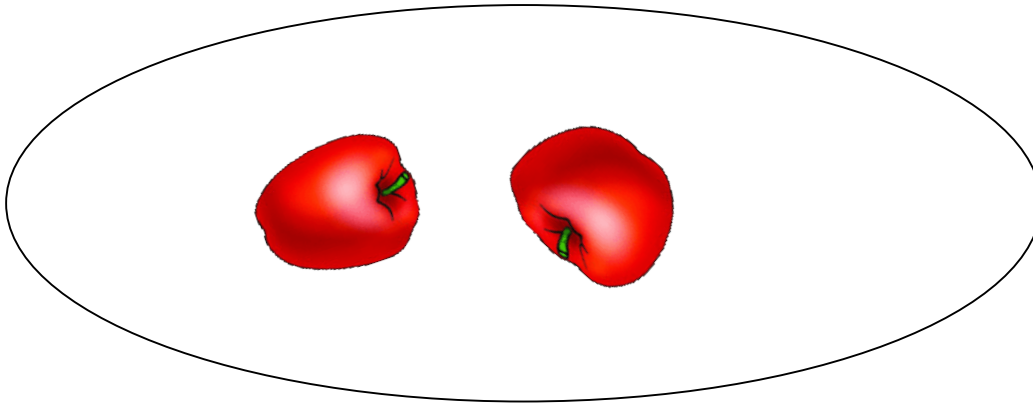
2.Special division.

$$3 \div 3 = 1$$



2.Special division.

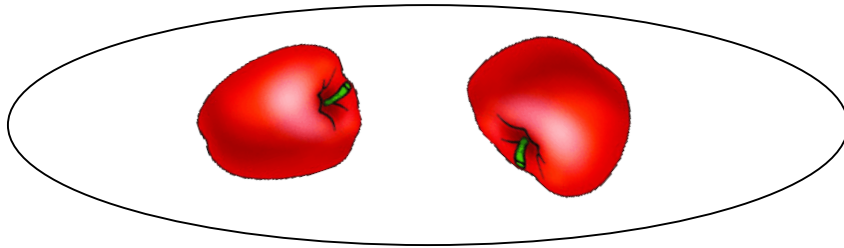
$$2 \div 3 = 0 \text{ r}2$$



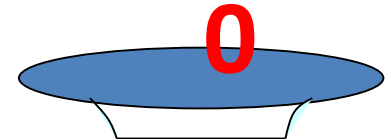
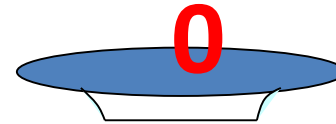
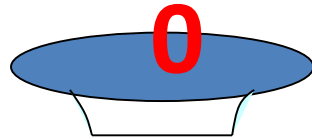
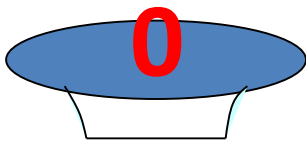
2.Special division.



$$2 \div 4 = 0 \text{ r}2$$



If the dividend is less than the divisor, quotient is 0, and remainder is the dividend.



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Use simple picture to understand and calculate by long column form.

$$7 \div 3 =$$



$$3 \overline{)7}$$



Quotient

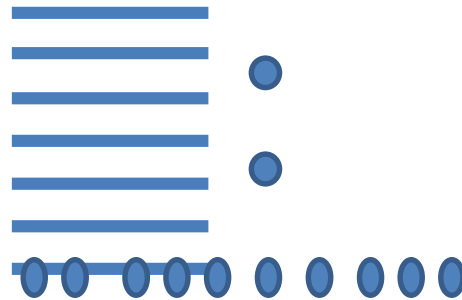
Multiplication

Subtraction

Remainder $<$ divisor

Use simple picture to divide.

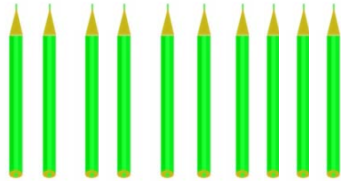
$$72 \div 3 = 24$$



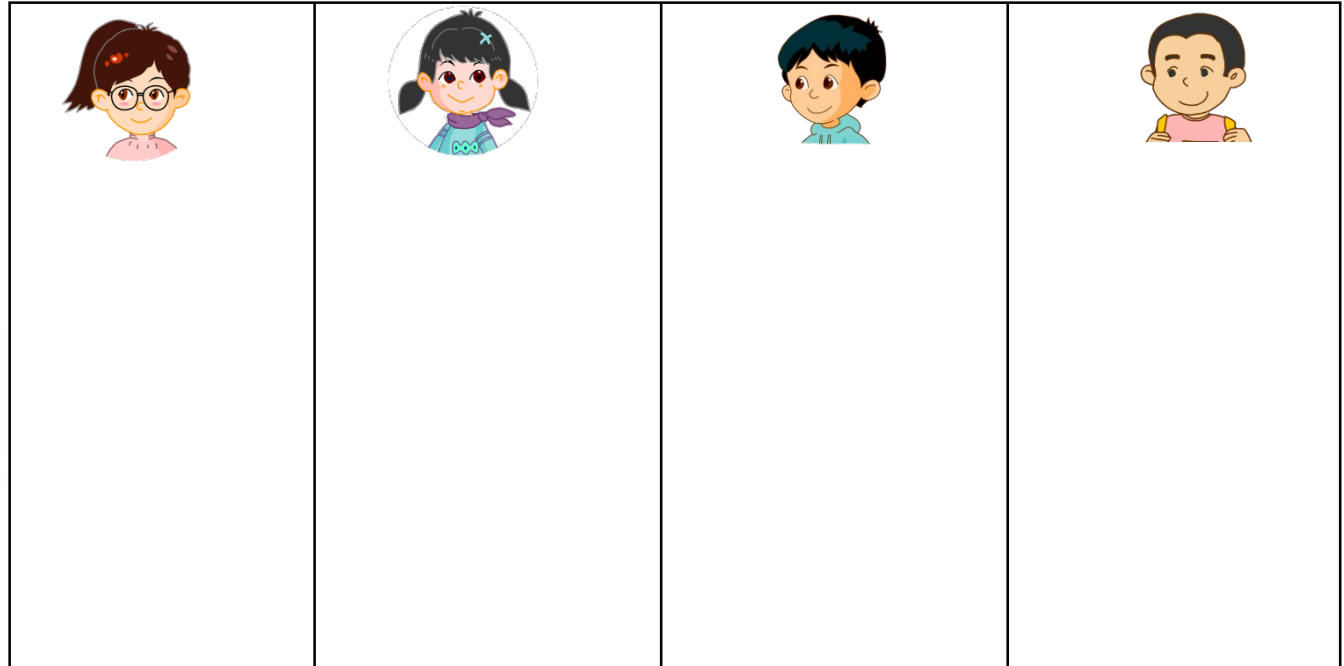
Use the long column form to calculate.

$$2 \overline{)93}$$

51 pencils are given to 4 kids equally, How many pencils can each kid get? How many pencils are left ?



$$\begin{array}{r} 12 \\ 4 \overline{) 51} \\ \underline{4} \\ 11 \\ \underline{8} \\ 3 \end{array}$$



$51 \div 4 = 12 \text{ r}3$



Compare: what's the difference?

$$\begin{array}{r} 12 \\ 4 \overline{) 51} \\ \underline{4} \\ 11 \\ \underline{8} \\ 3 \end{array}$$
$$\begin{array}{r} 12 \text{ r}3 \\ 4 \overline{) 51} \\ \underline{40} \\ 11 \end{array}$$

3. Use the long column form to calculate.

$$2 \overline{)83}$$

$$4 \overline{)56}$$

$$3 \overline{)97}$$