



2. Do the following in the same way.

- (a)  $78 \div 6 = \boxed{13}$  (b)  $85 \div 5 = \boxed{17}$  (c)  $96 \div 8 = \boxed{12}$   
 (d)  $76 \div 4 = \boxed{19}$  (e)  $96 \div 6 = \boxed{16}$  (f)  $68 \div 4 = \boxed{17}$   
 (g)  $95 \div 5 = \boxed{19}$  (h)  $91 \div 7 = \boxed{13}$  (i)  $64 \div 8 = \boxed{8}$

$19 \div 5 = ?$  (Use cubes or counters.)

$\Rightarrow$    $+$    
 $\Rightarrow$   $(10 \div 5)$   $+$   $(9 \div 5)$   
 $\Rightarrow$   $2$   $+$   $1 \text{ R } 4$   
 $=$   $3 \text{ R } 4$

Use counters or cubes when doing the following.

3. (a)  $27 \div 4 = ?$   
 $\Rightarrow (20 \div 4) + (\square \div 4)$   
 $\Rightarrow \square + \square \text{ R } \square$   
 $= \square \text{ R } \square$
- (b)  $48 \div 5 = ?$   
 $\Rightarrow (40 \div 5) + (\square \div 5)$   
 $\Rightarrow \square + \square \text{ R } \square$   
 $= \square \text{ R } \square$
- (c)  $38 \div 6 = ?$   
 $\Rightarrow (30 \div 6) + (\square \div 6)$   
 $\Rightarrow \square + \square \text{ R } \square$   
 $= \square \text{ R } \square$

4. (a)  $54 \div 4 = \boxed{13} \text{ R } \boxed{2}$  (b)  $77 \div 6 = \boxed{12} \text{ R } \boxed{5}$   
 (d)  $93 \div 8 = \boxed{11} \text{ R } \boxed{5}$  (e)  $73 \div 4 = \boxed{18} \text{ R } \boxed{1}$   
 (g)  $95 \div 6 = \boxed{15} \text{ R } \boxed{5}$  (h)  $90 \div 7 = \boxed{12} \text{ R } \boxed{6}$

Here is how I divide bigger numbers.



short way

t	u
4	$\overline{) 513}$
1	3
	R 1

$53 \div 4 = ?$

$53 \div 4 \Rightarrow (40 + 13) \div 4 \Rightarrow 4 \overline{) 413}$  or

t	u
4	$\overline{) 413}$
1	3
	R 1

Do these the short way.

5. (a)  $59 \div 4 = \boxed{14} \text{ R } \boxed{3}$  (b)  $76 \div 6 = \boxed{12} \text{ R } \boxed{4}$   
 (d)  $88 \div 6 = \boxed{14} \text{ R } \boxed{4}$  (e)  $99 \div 8 = \boxed{12} \text{ R } \boxed{3}$   
 (c)  $96 \div 7 = \boxed{13} \text{ R } \boxed{5}$  (f)  $94 \div 5 = \boxed{18} \text{ R } \boxed{4}$

1. (a)  $59 \div 2 = 29 R1$
- (d)  $89 \div 3 = 29 R2$
- (g)  $93 \div 4 = 23 R1$
- (j)  $87 \div 4 = 21 R3$
- (b)  $74 \div 3 = 24 R2$
- (e)  $75 \div 2 = 37 R1$
- (h)  $98 \div 3 = 32 R2$
- ✓(k)  $97 \div 3 = 32 R1$
- (c)  $59 \div 2 = 29 R1$
- (f)  $83 \div 3 = 27 R2$
- (i)  $99 \div 4 = 24 R3$
- ✓(l)  $89 \div 2 = 44 R1$

(a)

2.  $2 \overline{)81}$   
 $\underline{40 R1}$

4.  $4 \overline{)83}$   
 $\underline{20 R3}$

20 R3

3.  $3 \overline{)91}$   
 $\underline{30 R1}$

7.  $7 \overline{)53}$   
 $\underline{7 R4}$

7 R4

4.  $7 \overline{)77}$   
 $\underline{11}$

3.  $3 \overline{)68}$   
 $\underline{22 R2}$

22 R2

(c)

8.  $8 \overline{)92}$   
 $\underline{11 R4}$

11 R4

6.  $6 \overline{)92}$   
 $\underline{15 R2}$

15 R2

6.  $6 \overline{)84}$   
 $\underline{14}$

14

(a)

3.  $3 \overline{)65}$   
 $\underline{21 R2}$

21 R2

2.  $2 \overline{)71}$   
 $\underline{35 R1}$

35 R1

5.  $5 \overline{)78}$   
 $\underline{15 R3}$

15 R3

(b)

4.  $4 \overline{)90}$   
 $\underline{22 R2}$

22 R2

3.  $3 \overline{)88}$   
 $\underline{29 R1}$

29 R1

6.  $6 \overline{)95}$   
 $\underline{15 R5}$

15 R5

(c)

2.  $2 \overline{)67}$   
 $\underline{33 R1}$

33 R1

4.  $4 \overline{)98}$   
 $\underline{24 R2}$

24 R2

7.  $7 \overline{)94}$   
 $\underline{13 R3}$

13 R3

3. Use **method (c)** to do these. (Check your answers by **multiplying**.)

- (a)  $572 \div 4 = 143$  (b)  $695 \div 5 = 139$  (c)  $528 \div 3 = 176$  (d)  $632 \div 4 = 158$   
 (e)  $745 \div 5 = 149$  (f)  $864 \div 6 = 144$  (g)  $896 \div 7 = 128$  (h)  $882 \div 6 = 147$   
 (i)  $976 \div 8 = 122$  (j)  $972 \div 9 = 108$  (k)  $992 \div 8 = 124$  (l)  $792 \div 4 = 198$

**Example 2**

$638 \div 5 = ?$   $\Rightarrow$ 

5	h	t	u
5	13	8	

 $\Rightarrow$ 

5	h	t	u
5	10	38	
	1	2	7 R 3

4. Do these like Example 2.

(Check your answers by **multiplying** and **adding** the remainder.)

- (a)  $679 \div 5 = 135R4$  (b)  $583 \div 4 = 145R3$  (c)  $478 \div 3 = 159R1$  (d)  $659 \div 4 = 164R3$   
 (e)  $835 \div 7 = 119R2$  (f)  $875 \div 6 = 145R5$  (g)  $973 \div 8 = 121R5$  (h)  $997 \div 9 = 110R7$

1. Do these the short way. (Check your answers by multiplying.)

- (a)  $675 \div 5 = 135$  (b)  $695 \div 5 = 139$  (c)  $576 \div 4 = 144$  (d)  $471 \div 3 = 157$   
 (e)  $516 \div 4 = 129$  (f)  $732 \div 6 = 122$  (g)  $833 \div 7 = 119$  (h)  $984 \div 8 = 123$   
 (i)  $765 \div 5 = 153$  (j)  $815 \div 5 = 163$  (k)  $636 \div 4 = 159$  (l)  $748 \div 4 = 187$   
 (m)  $846 \div 6 = 141$  (n)  $738 \div 6 = 123$  (o)  $965 \div 5 = 193$  (p)  $972 \div 6 = 162$   
 (q)  $582 \div 3 = 194$  (r)  $747 \div 3 = 249$  (s)  $956 \div 4 = 239$  (t)  $894 \div 3 = 298$   
 (u)  $995 \div 5 = 199$  (v)  $978 \div 6 = 163$  (w)  $972 \div 3 = 324$  (x)  $876 \div 4 = 219$

Exemple 2  $659 \div 4 = ?$

$$\begin{array}{r} \text{h t u} \\ 4 \overline{) 659} \Rightarrow 4 \overline{) 425} \text{ q} \Rightarrow 4 \overline{) 424} \text{ 1q} \quad \text{or} \\ \quad 1 \quad 6 \quad 4 \quad \text{R } 3 \end{array}$$

short way

$$\begin{array}{r} \text{h t u} \\ 4 \overline{) 625} \text{ 1q} \\ \quad 1 \quad 6 \quad 4 \quad \text{R } 3 \end{array}$$

2. Do these the short way.

(Check your answers by multiplying and adding the remainder.)

- (a)  $678 \div 4 = 169 \text{ R } 2$  (b)  $728 \div 5 = 145 \text{ R } 3$  (c)  $765 \div 4 = 191 \text{ R } 1$  (d)  $869 \div 5 = 173 \text{ R } 4$   
 (e)  $457 \div 3 = 152 \text{ R } 1$  (f)  $835 \div 6 = 137 \text{ R } 1$  (g)  $986 \div 5 = 197 \text{ R } 1$  (h)  $937 \div 7 = 133 \text{ R } 6$   
 (i)  $886 \div 7 = 126 \text{ R } 4$  (j)  $907 \div 4 = 226 \text{ R } 3$  (k)  $839 \div 3 = 279 \text{ R } 2$  (l)  $979 \div 2 = 489 \text{ R } 1$   
 (m)  $935 \div 6 = 155 \text{ R } 5$  (n)  $989 \div 8 = 123 \text{ R } 5$  (o)  $978 \div 9 = 108 \text{ R } 6$  (p)  $809 \div 6 = 134 \text{ R } 5$   
 (q)  $999 \div 5 = 199 \text{ R } 4$  (r)  $800 \div 6 = 133 \text{ R } 2$  (s)  $900 \div 7 = 128 \text{ R } 4$  (t)  $357 \div 8 = 44 \text{ R } 5$

A quick test

3. Do these the short way. (Check your answers by multiplying, using the calculator and adding the remainders where necessary.)

- (a)  $5 \overline{) 376} 75 \text{ R } 1$  (b)  $6 \overline{) 470} 78 \text{ R } 2$  (c)  $7 \overline{) 938} 134$  (d)  $8 \overline{) 788} 98 \text{ R } 4$   
 (e)  $6 \overline{) 937} 156 \text{ R } 1$  (f)  $9 \overline{) 875} 91 \text{ R } 2$  (g)  $8 \overline{) 735} 91 \text{ R } 7$  (h)  $7 \overline{) 587} 83 \text{ R } 6$   
 (i)  $\frac{835}{3} = 278 \text{ R } 1$  (j)  $\frac{705}{9} = 78 \text{ R } 3$  (k)  $\frac{388}{7} = 55 \text{ R } 3$  (l)  $\frac{703}{8} = 87 \text{ R } 7$   
 (m)  $6 \overline{) 800} 133 \text{ R } 2$  (n)  $8 \overline{) 960} 120$  (o)  $7 \overline{) 963} 137 \text{ R } 4$  (p)  $9 \overline{) 977} 108 \text{ R } 5$