```
1: #!/usr/bin/perl
 2: # $Id: egyptian-div.perl,v 1.1 2019-04-03 16:17:52-07 - - $
 3:
 4: $0 = "s|.*/||;
 5: print STDERR "Usage: $0 numerator denominator\n" and exit
 6: unless @ARGV == 2 and ($numer, $denom) = @ARGV
7:
           and numer = m/^d+ and denom = m/^d+;
8:
9: print "$0: verification: $numer / $denom = ", int $numer / $denom,
          " remainder ", $numer % $denom, "\n\n";
11:
12: $top = 1;
13: $right = $denom;
14:
15: while ($right <= $numer) {</pre>
      push @stack, [$top, $right];
17:
       $top += $top;
18:
       $right += $right;
19: }
20:
21: (\$remdr, \$quot) = (\$numer, 0);
22: $fmt = "%12s %12s %12s %12s\n";
23: while (@stack) {
       printf $fmt, "", "", $remdr, $quot;
24:
       ($top, $right) = @{pop @stack};
25:
       if ($right <= $remdr) {</pre>
26:
27:
          $remdr -= $right;
28:
          $quot += $top;
          printf $fmt, $top, $right, "- " . $right, "+ " . $top;
29:
30:
       }else {
31:
          printf $fmt, $top, $right, "- 0", "+ 0";
32:
       printf $fmt, "", "", "= " . $remdr, "= " . $quot;
33:
34:
       printf "\n";
35: }
36:
37: printf $fmt, "", "", "remainder", "quotient";
39: __DATA_
40: //TEST// egyptian-division.perl 76543 123 >egyptian-division.out
41: //TEST// mkpspdf egyptian-division.ps \
42: //TEST//
                     egyptian-division.perl egyptian-division.out
```

1	: egyptian-div.perl:	verification	n: 76543 / 12	23 = 622 remainde	er 37
	2:				
	3:		76543	0	
4	l: 512	62976	- 62976	+ 512	
5	5:		= 13567	= 512	
6	5:				
7	':		13567	512	
8	3: 256	31488	- 0	+ 0	
9):		= 13567	= 512	
10):				
11	. :		13567	512	
12	2: 128	15744	- 0	+ 0	
13	3:		= 13567	= 512	
14	l:				
15			13567	512	
16	5: 64	7872	- 7872	+ 64	
17	':		= 5695	= 576	
18	3:				
19):		5695	576	
20): 32	3936	- 3936	+ 32	
21	.:		= 1759	= 608	
22	2:				
23	3:		1759	608	
24	l: 16	1968	- 0	+ 0	
25	5:		= 1759	= 608	
26	5:				
27	':		1759	608	
28	3: 8	984	- 984	+ 8	
29):		= 775	= 616	
30):				
31			775	616	
32		492	- 492	+ 4	
33	3:		= 283	= 620	
34	!:				
35			283	620	
36	5: 2	246	- 246	+ 2	
37	':		= 37	= 622	
38					
39			37	622	
40		123	- 0	+ 0	
41			= 37	= 622	
42					
43	3:		remainder	quotient	