Math Friday

Writing ratios

NAME LOZ 66

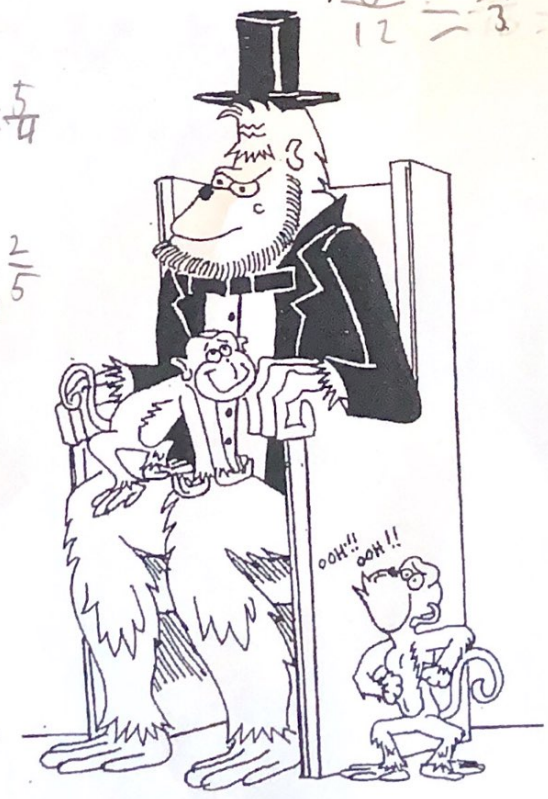
Which president do monkeys like best?

DIRECTIONS: **First,** write a ratio in lowest terms for each problem below. **Second,** find the ratio given in fractional form at the bottom of the page. **Third,** each time the ratio appears in the decoder, write the letter above it. See the example given below.

> Number of letters in *Olympics* to the number of letters in *motorcycle* :
>
> *Olympics* has 8 letters; *motorcycle* has 10 letters.
>
> The ratio is $\frac{8}{10}$ which can be reduced to $\frac{4}{5}$.

$\frac{9}{3} = \frac{3}{1}$

1. Number of letters in *Dalmatian* to the number of letters in *dog* = $\frac{13}{1}$ (I)
2. Number of letters in *space* to the number of letters in *hamburgers* = $\frac{1}{2}$ (N) $\frac{5}{10} = \frac{1}{2}$
3. Number of letters in *baseball* to the number of letters in *encyclopedia* = $\frac{2}{3}$ (E) $\frac{8}{12} = \frac{2}{3}$
4. Number of letters in *candy* to the number of letters in *soccer* = $\frac{5}{6}$ (C)
5. Number of letters in *basketball* to the number of letters in *elephant* = $\frac{5}{4}$ (P) $\frac{10}{8} = \frac{5}{4}$
6. Number of letters in *love* to the number of letters in *friendship* = $\frac{2}{5}$ (L) $\frac{4}{10} = \frac{2}{5}$
7. Number of letters in *popcorn* to the number of letters in *diamond* = $\frac{1}{1}$ (A) $\frac{7}{7} = \frac{1}{1}$
8. Number of letters in *dollar* to the number of letters in *dime* = $\frac{3}{2}$ (O) $\frac{6}{4} = \frac{3}{2}$



A	P	E				
$\frac{1}{1}$	$\frac{5}{4}$	$\frac{2}{3}$				

L	I	N	C	O	L	N
$\frac{2}{5}$	$\frac{3}{1}$	$\frac{1}{2}$	$\frac{5}{6}$	$\frac{3}{2}$	$\frac{2}{5}$	$\frac{1}{2}$

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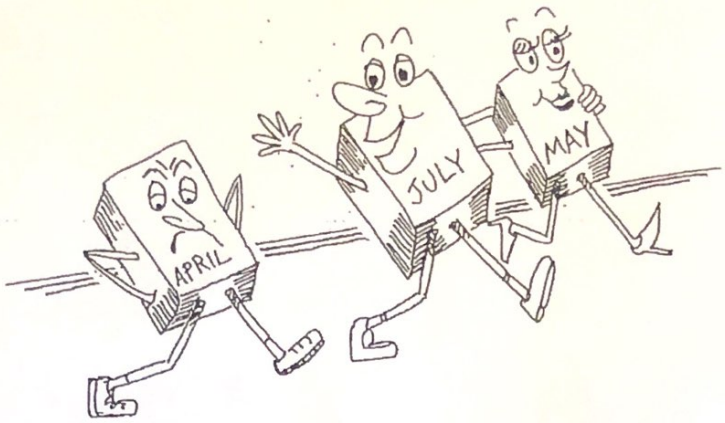
NAME LOZ

What did one calendar say to the other calendar?



DIRECTIONS: Solve each proportion and find your answer in the decoder at the bottom of the page. Each time your answer appears in the decoder, write the letter of the problem above it.

1. 1 : 2 = T : 6
   T = 3
2. 2 : 5 = 10 : H
   H = 25
3. 6 : 5 = S : 15
   S = 18
4. 10 : 7 = 50 : V
   V = 35
5. 3 : 7 = 6 : R
   R = 14
6. 3 : 1 = U : 10
   U = 30
7. 4 : 3 = Y : 30
   Y = 40
8. 4 : 25 = 8 : I
   I = 50
9. 3 : 8 = 30 : N
   N = 80
10. 1 : 3 = 4 : E
    E = 12
11. 5 : 4 = 20 : O
    O = 16
12. 5 : 11 = 10 : M
    M = 22
13. 7 : 4 = A : 16
    A = 28
14. 5 : 7 = D : 14
    D = 10

I		H	A	V	E		M	O	R	E		D	A	Y	S
50		25	28	35	12		22	16	14	12		10	28	3	12	18

T	H	A	N		Y	O	U		D	O	
3	25	28	80		40	16	30		10	16	

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