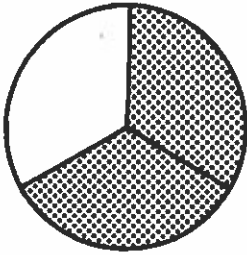


How Do You Get 27 Kids to Carve a Statue?

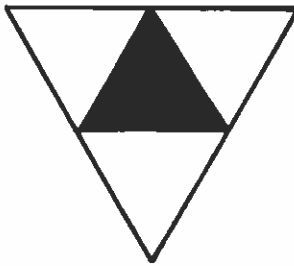
Find your answer for each exercise at the bottom of the page and write the letter of the exercise above it. (Do not reduce answers.)

I. Write a fraction for the part that is shaded.

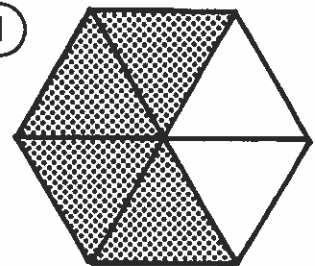
(E)



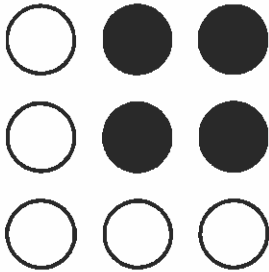
(N)



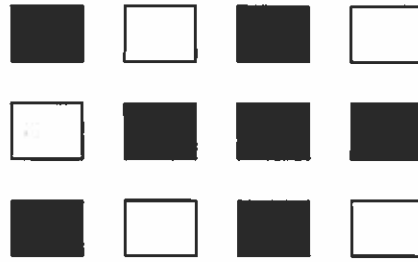
(I)



(A)



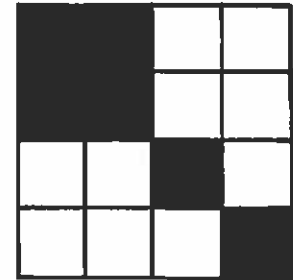
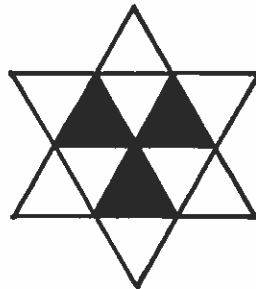
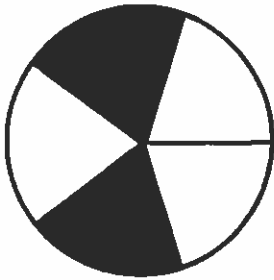
(C)



(E)



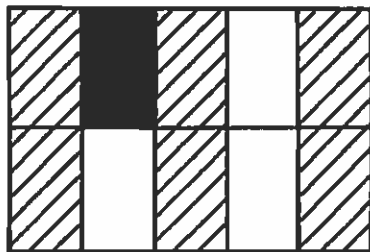
II. Write a fraction for the part named.



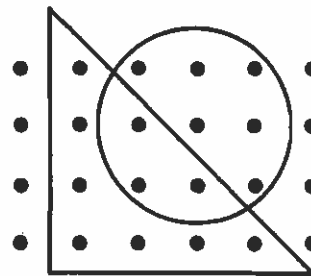
(R) shaded (I) unshaded

(E) shaded (H) unshaded

(Y) shaded (V) unshaded



(E) shaded
(N) striped
(V) shaded or striped

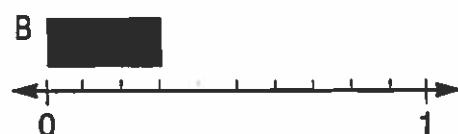
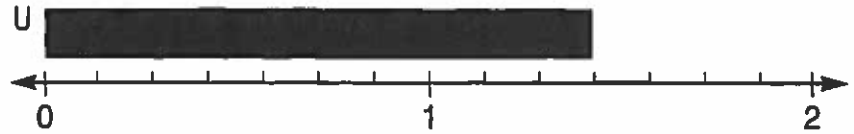
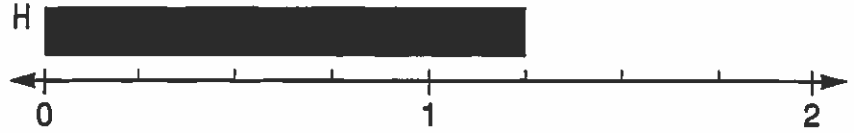
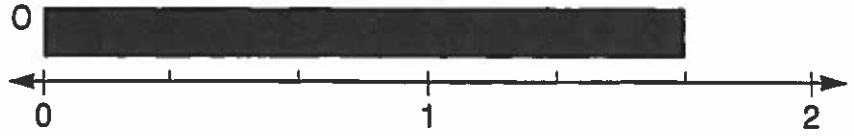


(P) in the
(O) in the
(H) in both the and

$\frac{9}{12}$	$\frac{4}{9}$	$\frac{10}{16}$	$\frac{5}{7}$	$\frac{7}{24}$	$\frac{2}{3}$	$\frac{7}{10}$	$\frac{1}{10}$	$\frac{2}{5}$	$\frac{6}{16}$	$\frac{10}{24}$	$\frac{1}{4}$	$\frac{3}{12}$	$\frac{5}{16}$	$\frac{7}{12}$	$\frac{3}{24}$	$\frac{4}{6}$	$\frac{9}{24}$	$\frac{5}{10}$	$\frac{3}{5}$	$\frac{6}{10}$	

What Did the Boy Snake Say to the Girl Snake?

Write a fraction for the length of the bar above each number line. Find your answer at the bottom of the page and write the letter of the exercise above it.



$\frac{5}{4}$	$\frac{5}{3}$	$\frac{7}{12}$	$\frac{9}{10}$	$\frac{5}{6}$	$\frac{3}{10}$	$\frac{2}{9}$	$\frac{10}{7}$	$\frac{4}{5}$	$\frac{7}{16}$	$\frac{1}{3}$	$\frac{3}{13}$	$\frac{14}{9}$	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{11}{16}$	$\frac{17}{12}$	$\frac{5}{8}$	$\frac{17}{10}$	$\frac{3}{2}$	$\frac{15}{8}$	$\frac{19}{16}$	

HOW DO YOU TURN A BANANA INTO A VEGETABLE?

Divide each number line as indicated. Then locate the given numbers. Write the letter of each exercise above the number line at the corresponding point.

$$\textcircled{R} \frac{3}{2}$$

$$\textcircled{W} \frac{5}{2}$$

$$\textcircled{H} \frac{2}{2}$$

$$\textcircled{O} \frac{4}{2}$$

$$\textcircled{T} \frac{1}{2}$$

halves



$$\textcircled{T} \frac{2}{3}$$

$$\textcircled{U} \frac{4}{3}$$

$$\textcircled{N} \frac{8}{3}$$

$$\textcircled{I} \frac{1}{3}$$

$$\textcircled{D} \frac{9}{3}$$

$$\textcircled{A} 2\frac{1}{3}$$

$$\textcircled{P} \frac{5}{3}$$

thirds



$$\textcircled{L} \frac{6}{4}$$

$$\textcircled{T} \frac{1}{4}$$

$$\textcircled{E} 2\frac{3}{4}$$

$$\textcircled{I} \frac{4}{4}$$

$$\textcircled{O} \frac{9}{4}$$

$$\textcircled{W} \frac{3}{4}$$

$$\textcircled{I} \frac{0}{4}$$

$$\textcircled{L} 1\frac{1}{4}$$

$$\textcircled{M} \frac{10}{4}$$

$$\textcircled{C} \frac{8}{4}$$

fourths



$$\textcircled{S} \frac{8}{5}$$

$$\textcircled{O} \frac{3}{5}$$

$$\textcircled{A} \frac{11}{5}$$

$$\textcircled{N} \frac{5}{5}$$

$$\textcircled{H} 2\frac{3}{5}$$

$$\textcircled{D} \frac{2}{5}$$

$$\textcircled{U} \frac{10}{5}$$

$$\textcircled{W} \frac{4}{5}$$

$$\textcircled{Q} 1\frac{4}{5}$$

$$\textcircled{S} \frac{12}{5}$$

fifths





What Is Rock 'N' Roll?



For each exercise, write $>$, $<$, or $=$ in the \bigcirc . Circle the appropriate number-letter. Write the letter in the matching numbered box at the bottom of the page.

		$>$	$<$	$=$
1	$\frac{3}{8} \bigcirc \frac{1}{2}$	29-L	10-H	15-F
2	$\frac{5}{8} \bigcirc \frac{1}{2}$	19-A	24-M	16-P
3	$\frac{2}{4} \bigcirc \frac{1}{2}$	21-U	4-G	31-I
4	$\frac{5}{12} \bigcirc \frac{1}{2}$	29-V	15-T	8-K
5	$\frac{7}{12} \bigcirc \frac{1}{2}$	5-N	16-B	33-E
6	$\frac{5}{10} \bigcirc \frac{1}{2}$	1-S	21-R	24-O
7	$\frac{3}{5} \bigcirc \frac{1}{2}$	29-E	13-V	25-W
8	$\frac{2}{5} \bigcirc \frac{1}{2}$	23-M	4-A	18-D
9	$\frac{3}{7} \bigcirc \frac{1}{2}$	12-P	16-S	27-K
10	$\frac{4}{7} \bigcirc \frac{1}{2}$	8-I	14-U	20-N
11	$\frac{3}{6} \bigcirc \frac{1}{2}$	34-B	3-G	21-D
12	$\frac{11}{20} \bigcirc \frac{1}{2}$	33-T	6-F	13-L
13	$\frac{5}{9} \bigcirc \frac{1}{2}$	1-A	18-P	28-N
14	$\frac{7}{16} \bigcirc \frac{1}{2}$	9-G	13-H	12-C




		$>$	$<$	$=$
15	$\frac{5}{11} \bigcirc \frac{1}{2}$	32-R	27-I	7-L
16	$\frac{6}{11} \bigcirc \frac{1}{2}$	23-T	6-E	20-U
17	$\frac{9}{16} \bigcirc \frac{1}{2}$	14-A	22-S	26-M
18	$\frac{4}{9} \bigcirc \frac{1}{2}$	28-R	34-O	2-T
19	$\frac{51}{100} \bigcirc \frac{1}{2}$	18-H	9-N	3-C
20	$\frac{1}{2} \bigcirc \frac{1}{3}$	6-D	26-F	11-E
21	$\frac{1}{2} \bigcirc \frac{8}{16}$	7-M	30-R	12-T
22	$\frac{1}{2} \bigcirc \frac{7}{15}$	32-N	20-J	2-L
23	$\frac{1}{2} \bigcirc \frac{8}{15}$	9-P	28-T	17-S
24	$\frac{1}{2} \bigcirc \frac{25}{50}$	3-F	25-A	9-C
25	$\frac{1}{2} \bigcirc \frac{7}{10}$	11-S	20-R	26-V
26	$\frac{1}{2} \bigcirc \frac{2}{3}$	30-N	3-S	7-R
27	$\frac{1}{2} \bigcirc \frac{16}{32}$	2-T	17-O	26-B
28	$\frac{1}{2} \bigcirc \frac{50}{100}$	25-P	22-Y	7-W

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34




What Did the Mermaid Do on Saturday Night?

For each exercise, circle the best choice. Write the letter next to your answer in the box containing the exercise number.




I. Circle the fraction that tells about how much of each bar is shaded.

1.  2.  3. 

(L) $\frac{1}{10}$ (T) $\frac{7}{8}$ (A) $\frac{4}{9}$ (Y) $\frac{5}{6}$ (K) $\frac{2}{15}$ (E) $\frac{6}{11}$ (N) $\frac{9}{20}$ (O) $\frac{2}{17}$ (V) $\frac{4}{7}$

4.  5.  6. 

(H) $\frac{7}{16}$ (I) $\frac{1}{5}$ (B) $\frac{11}{14}$ (R) $\frac{7}{10}$ (P) $\frac{10}{21}$ (S) $\frac{1}{9}$ (G) $\frac{3}{7}$ (F) $\frac{3}{19}$ (E) $\frac{11}{13}$

7.  8.  9. 

(U) $\frac{7}{15}$ (I) $\frac{3}{14}$ (M) $\frac{3}{5}$ (J) $\frac{1}{8}$ (D) $\frac{4}{9}$ (T) $\frac{14}{17}$ (H) $\frac{7}{12}$ (A) $\frac{13}{16}$ (R) $\frac{3}{10}$

II. Circle the fraction that matches the description given.

10. Close to 0 (N) $\frac{3}{7}$ (Y) $\frac{17}{20}$ (E) $\frac{1}{10}$	11. Close to $\frac{1}{2}$ (I) $\frac{8}{15}$ (C) $\frac{4}{5}$ (P) $\frac{3}{16}$	12. Close to 1 (K) $\frac{3}{8}$ (W) $\frac{8}{9}$ (F) $\frac{7}{13}$
13. Close to 0 (O) $\frac{5}{9}$ (E) $\frac{2}{13}$ (R) $\frac{17}{18}$	14. Close to $\frac{1}{2}$ (N) $\frac{2}{9}$ (S) $\frac{9}{10}$ (T) $\frac{5}{11}$	15. Close to 1 (T) $\frac{3}{5}$ (H) $\frac{17}{20}$ (O) $\frac{7}{16}$
16. Close to 0 (R) $\frac{5}{12}$ (E) $\frac{9}{8}$ (T) $\frac{7}{100}$	17. Close to $\frac{1}{2}$ (W) $\frac{9}{16}$ (K) $\frac{16}{9}$ (F) $\frac{2}{7}$	18. Close to 1 (N) $\frac{10}{17}$ (C) $\frac{1}{10}$ (D) $\frac{13}{12}$
19. Less than $\frac{1}{2}$ (G) $\frac{2}{3}$ (N) $\frac{6}{14}$ (R) $\frac{9}{16}$	20. More than $\frac{1}{2}$ (U) $\frac{13}{25}$ (L) $\frac{2}{5}$ (I) $\frac{49}{100}$	21. Less than 1 (M) $\frac{8}{7}$ (G) $\frac{20}{19}$ (T) $\frac{19}{20}$

5	15	10		17	2	19	8		3	20	14		12	7	16	4		1	9	13		21	11	18	6
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Why Is Tuesday the Favorite Day of Math Teachers?

For each exercise, write the missing number. Find your answer in the set of boxes under the exercise. Write the letter of the exercise in the box containing the answer.

$$\textcircled{E} \frac{2}{3} = \frac{2 \times 5}{3 \times 5} = \frac{10}{15} \quad \textcircled{T} \frac{1}{4} = \frac{1 \times 3}{4 \times 3} = \frac{3}{12} \quad \textcircled{H} \frac{3}{7} = \frac{3 \times 8}{7 \times 8} = \frac{24}{56} \quad \textcircled{Y} \frac{5}{8} = \frac{5 \times 4}{8 \times 4} = \frac{20}{32}$$

$$\textcircled{A} \frac{1}{2} = \frac{1 \times 15}{2 \times 15} = \frac{15}{30} \quad \textcircled{S} \frac{3}{5} = \frac{3 \times 6}{5 \times 6} = \frac{18}{30} \quad \textcircled{T} \frac{7}{12} = \frac{7 \times 2}{12 \times 2} = \frac{14}{24} \quad \textcircled{O} \frac{4}{9} = \frac{4 \times 9}{9 \times 9} = \frac{36}{81}$$

$$\textcircled{H} \frac{2}{5} = \frac{20}{50} \quad \textcircled{I} \frac{3}{4} = \frac{36}{48} \quad \textcircled{A} \frac{1}{6} = \frac{18}{108} \quad \textcircled{T} \frac{7}{10} = \frac{70}{100} \quad \textcircled{L} \frac{5}{12} = \frac{50}{60}$$

$$\textcircled{Y} \frac{6}{7} = \frac{36}{42} \quad \textcircled{I} \frac{4}{15} = \frac{12}{45} \quad \textcircled{T} \frac{3}{8} = \frac{30}{240} \quad \textcircled{N} \frac{1}{3} = \frac{27}{27} \quad \textcircled{D} \frac{3}{20} = \frac{30}{600}$$

27	12	11	45	30	96	56	8	10	20	81	9	25	32	49	6	15	42	5	80	24	3	14	64
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$$\textcircled{A} \frac{5}{7} = \frac{21}{63} \quad \textcircled{U} \frac{1}{9} = \frac{63}{63} \quad \textcircled{E} \frac{5}{6} = \frac{30}{180} \quad \textcircled{A} \frac{2}{11} = \frac{18}{99} \quad \textcircled{S} \frac{9}{25} = \frac{36}{225}$$

$$\textcircled{E} \frac{3}{10} = \frac{18}{60} \quad \textcircled{R} \frac{7}{16} = \frac{21}{48} \quad \textcircled{A} \frac{4}{5} = \frac{10}{25} \quad \textcircled{D} \frac{7}{20} = \frac{105}{140}$$

$$\textcircled{A} \frac{7}{8} = \frac{32}{448} \quad \textcircled{E} \frac{1}{5} = \frac{55}{55} \quad \textcircled{R} \frac{8}{9} = \frac{24}{27} \quad \textcircled{N} \frac{2}{15} = \frac{4}{75}$$

$$\textcircled{B} \frac{4}{7} = \frac{40}{280} \quad \textcircled{M} \frac{3}{4} = \frac{100}{133} \quad \textcircled{N} \frac{3}{16} = \frac{48}{256} \quad \textcircled{F} \frac{7}{12} = \frac{144}{252} \quad \textcircled{M} \frac{19}{20} = \frac{100}{1000}$$

10	28	100	4	30	15	75	25	35	22	99	84	40	60	27	63	8	39	9	7	95	70	11	48
----	----	-----	---	----	----	----	----	----	----	----	----	----	----	----	----	---	----	---	---	----	----	----	----

What Did the Doctor Say to the Guy Who Thought He Was a Wigwam One Day and a Tepee the Next?

Circle one fraction in each set. Notice the letter above it. Write this letter in the box at the bottom of the page that contains the exercise number.

I. Circle the fraction that is equivalent to the first fraction in the set.

1

	G	T	V
$\frac{1}{3}$	$\frac{2}{9}$	$\frac{4}{12}$	$\frac{5}{18}$

2

	I	P	O
$\frac{2}{5}$	$\frac{6}{12}$	$\frac{18}{40}$	$\frac{14}{35}$

3

	F	M	E
$\frac{3}{4}$	$\frac{9}{16}$	$\frac{21}{32}$	$\frac{15}{20}$

4

	A	W	L
$\frac{5}{8}$	$\frac{30}{48}$	$\frac{20}{24}$	$\frac{45}{64}$

5

	K	S	C
$\frac{4}{9}$	$\frac{2}{3}$	$\frac{12}{27}$	$\frac{28}{72}$

6

	B	E	R
$\frac{6}{7}$	$\frac{7}{8}$	$\frac{48}{56}$	$\frac{24}{35}$

7

	N	F	U
$\frac{7}{10}$	$\frac{42}{50}$	$\frac{6}{9}$	$\frac{70}{100}$

8

	T	A	O
$\frac{5}{12}$	$\frac{20}{48}$	$\frac{10}{36}$	$\frac{30}{84}$

9

	H	T	E
$\frac{1}{2}$	$\frac{7}{15}$	$\frac{16}{30}$	$\frac{12}{24}$

II. Circle the fraction that is in lowest terms.

10

V	I	U	M
$\frac{5}{10}$	$\frac{6}{9}$	$\frac{3}{8}$	$\frac{2}{6}$

11

N	Y	L	S
$\frac{4}{8}$	$\frac{2}{9}$	$\frac{15}{25}$	$\frac{10}{14}$

12

G	P	O	A
$\frac{6}{8}$	$\frac{3}{9}$	$\frac{7}{12}$	$\frac{20}{45}$

13

D	T	L	R
$\frac{4}{12}$	$\frac{9}{15}$	$\frac{2}{4}$	$\frac{5}{6}$

14

P	B	N	S
$\frac{12}{18}$	$\frac{7}{14}$	$\frac{9}{12}$	$\frac{8}{15}$

15

T	H	F	Y
$\frac{10}{21}$	$\frac{4}{32}$	$\frac{6}{10}$	$\frac{15}{24}$

16

C	J	G	W
$\frac{8}{22}$	$\frac{9}{16}$	$\frac{10}{35}$	$\frac{3}{12}$

17

E	I	R	O
$\frac{6}{15}$	$\frac{7}{42}$	$\frac{11}{33}$	$\frac{12}{25}$

18

N	D	K	X
$\frac{4}{5}$	$\frac{12}{16}$	$\frac{15}{36}$	$\frac{2}{8}$

11	2	7	4	13	6	16	10	14	1	8	17	12	15	3	18	5	9
----	---	---	---	----	---	----	----	----	---	---	----	----	----	---	----	---	---

What Did George Washington Say To His Men On March 3?



Write each fraction in lowest terms. Find your answer in the adjacent answer columns. Write the letter of the exercise in the box containing the number of the answer.

Ⓦ $\frac{3}{9}$

Ⓞ $\frac{2}{8}$

Ⓛ $\frac{5}{10}$

Ⓣ $\frac{4}{6}$

ⓗ $\frac{9}{12}$

Ⓡ $\frac{10}{25}$

Answers:

Ⓜ $\frac{3}{5}$ Ⓜ $\frac{1}{4}$

Ⓟ $\frac{2}{5}$ Ⓜ $\frac{2}{3}$

Ⓜ $\frac{1}{3}$ Ⓜ $\frac{5}{6}$

Ⓜ $\frac{3}{4}$ Ⓜ $\frac{1}{2}$

Ⓛ $\frac{3}{24}$

Ⓣ $\frac{8}{18}$

Ⓞ $\frac{9}{15}$

Ⓡ $\frac{7}{21}$

Ⓦ $\frac{10}{12}$

Ⓛ $\frac{4}{8}$

Answers:

Ⓜ $\frac{3}{5}$ Ⓜ $\frac{3}{4}$

Ⓜ $\frac{2}{3}$ Ⓜ $\frac{1}{2}$

Ⓜ $\frac{1}{3}$ Ⓜ $\frac{4}{9}$

Ⓜ $\frac{1}{8}$ Ⓜ $\frac{5}{6}$

Ⓡ $\frac{10}{16}$

ⓗ $\frac{15}{20}$

Ⓞ $\frac{3}{30}$

Ⓞ $\frac{12}{14}$

Ⓜ $\frac{16}{20}$

Ⓦ $\frac{6}{36}$

Answers:

Ⓜ $\frac{1}{10}$ Ⓜ $\frac{5}{8}$

Ⓜ $\frac{3}{8}$ Ⓜ $\frac{4}{5}$

Ⓜ $\frac{1}{6}$ Ⓜ $\frac{3}{4}$

Ⓜ $\frac{6}{7}$ Ⓜ $\frac{2}{5}$

Ⓞ $\frac{20}{30}$

Ⓞ $\frac{8}{16}$

Ⓡ $\frac{10}{45}$

Ⓜ $\frac{14}{20}$

ⓗ $\frac{15}{36}$

Ⓡ $\frac{21}{56}$

Answers:

Ⓜ $\frac{5}{12}$ Ⓜ $\frac{2}{9}$

Ⓜ $\frac{2}{3}$ Ⓜ $\frac{3}{5}$

Ⓜ $\frac{3}{8}$ Ⓜ $\frac{7}{10}$

Ⓜ $\frac{2}{7}$ Ⓜ $\frac{1}{2}$

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Where can you hear **MUSIC** on an ocean liner?

Write each fraction in lowest terms. Find your answer at the right and mark the letter next to it. For each set of exercises, there is one extra answer. Write the letter of this answer in the corresponding box at the bottom of the page.

1	$\frac{6}{9} -$	$\frac{2}{10} -$	$\frac{20}{35} -$	(L) $\frac{1}{5}$	(B) $\frac{2}{3}$	(E) $\frac{2}{7}$	(V) $\frac{4}{7}$
2	$\frac{2}{16} =$	$\frac{15}{18} -$	$\frac{20}{90} -$	(C) $\frac{4}{5}$	(H) $\frac{3}{4}$	(F) $\frac{2}{9}$	(O) $\frac{5}{6}$
3	$\frac{25}{75} -$	$\frac{12}{32} -$	$\frac{42}{49} -$	(G) $\frac{6}{7}$	(D) $\frac{3}{8}$	(A) $\frac{3}{7}$	(R) $\frac{1}{3}$
4	$\frac{10}{24} =$	$\frac{15}{27} -$	$\frac{50}{100} =$	(I) $\frac{1}{2}$	(M) $\frac{5}{12}$	(G) $\frac{5}{9}$	(E) $\frac{5}{8}$
5	$\frac{5}{40} =$	$\frac{8}{30} -$	$\frac{24}{36} -$	(R) $\frac{1}{8}$	(T) $\frac{4}{9}$	(N) $\frac{4}{15}$	(L) $\frac{2}{3}$
6	$\frac{12}{30} =$	$\frac{21}{36} -$	$\frac{60}{80} -$	(D) $\frac{7}{20}$	(C) $\frac{7}{12}$	(F) $\frac{2}{5}$	(E) $\frac{3}{4}$
7	$\frac{70}{100} =$	$\frac{250}{1,000} =$	$\frac{16}{24} =$	(W) $\frac{7}{10}$	(U) $\frac{2}{3}$	(R) $\frac{1}{4}$	(H) $\frac{7}{8}$
8	$\frac{8}{28} -$	$\frac{10}{60} -$	$\frac{45}{100} -$	(E) $\frac{1}{6}$	(K) $\frac{2}{5}$	(S) $\frac{9}{20}$	(H) $\frac{2}{7}$
9	$\frac{75}{100} =$	$\frac{8}{36} -$	$\frac{21}{24} -$	(D) $\frac{7}{8}$	(T) $\frac{7}{12}$	(L) $\frac{3}{4}$	(N) $\frac{2}{9}$
10	$\frac{18}{36} -$	$\frac{55}{75} -$	$\frac{120}{150} =$	(A) $\frac{4}{5}$	(R) $\frac{11}{15}$	(E) $\frac{2}{3}$	(S) $\frac{1}{2}$
11	40 minutes is what fraction of an hour?					(M) $\frac{1}{4}$	(P) $\frac{3}{5}$
	3 inches is what fraction of a foot?					(D) $\frac{2}{3}$	(G) $\frac{5}{8}$
	10 ounces is what fraction of a pound?						

5

7

1

9

3

11

4

6

10

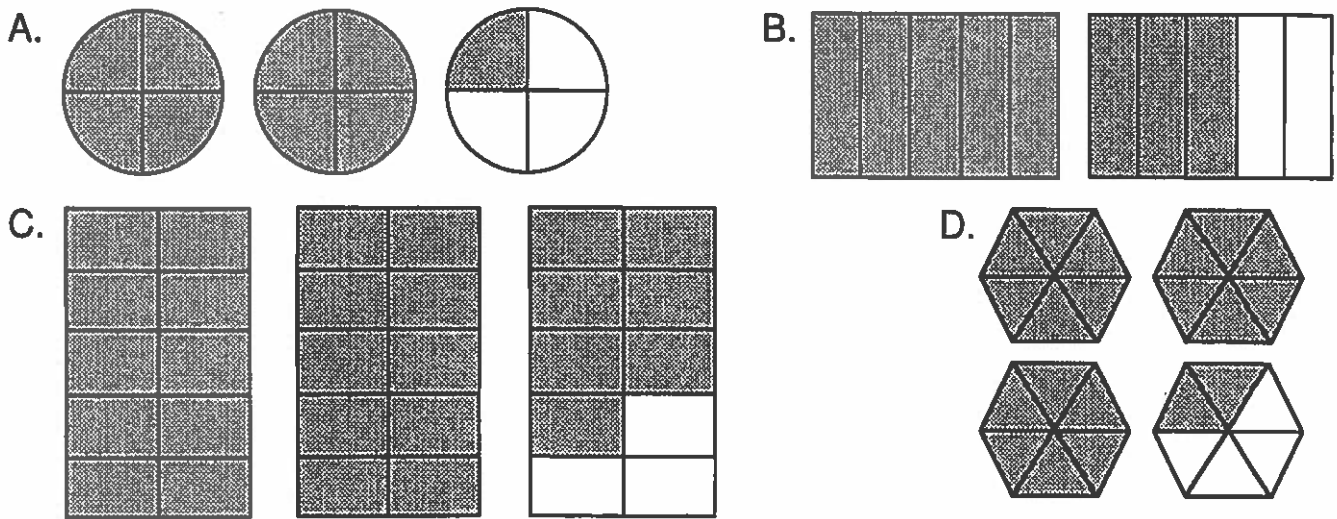
2

8

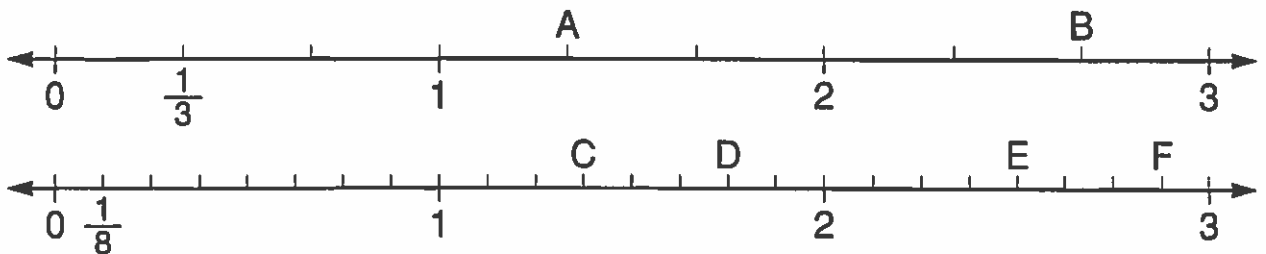
What Is the World's Most Musical Fish?

Cross out the box containing each correct answer. When you finish, write the letters from the remaining boxes in the spaces at the bottom of the page.

1. Write a mixed number with the fraction in lowest terms for each shaded region.



2. Write a mixed number with the fraction in lowest terms for each lettered point.



3. Write each quotient as a mixed number with the fraction in lowest terms.

A. $25 \div 6$

B. $19 \div 7$

C. $34 \div 10$

D. $50 \div 9$

E. $22 \div 12$

F. $90 \div 20$

G. A table is 39 inches wide. Express this measurement in feet.

H. Smedley ran 440 yards in 78 seconds. Express this time in minutes.

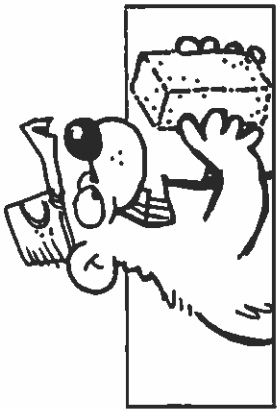
_____ ft

_____ min

SC	AL	TH	AT	IM	ST	EP	ET	TR	IA	LS	EE
$2\frac{1}{2}$	$2\frac{5}{7}$	$4\frac{2}{3}$	$4\frac{1}{2}$	$2\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{5}$	$1\frac{3}{10}$	$2\frac{7}{8}$	$1\frac{6}{7}$	$3\frac{2}{5}$	$3\frac{1}{3}$
NO	TE	SO	TU	BA	RN	UP	FU	NA	ME	SO	NG
$3\frac{5}{6}$	$3\frac{1}{4}$	$2\frac{7}{10}$	$2\frac{1}{6}$	$1\frac{5}{6}$	$1\frac{1}{3}$	$1\frac{3}{5}$	$5\frac{5}{9}$	$2\frac{4}{9}$	$4\frac{1}{6}$	$1\frac{3}{4}$	$2\frac{2}{3}$

* It knows its scales.

What Is the Difference Between a 16-Ounce Brick and a Carpenter?



Do each exercise and find your answer in the set of boxes under it.
Write the letter of the exercise in the box containing the answer.

I. Write each improper fraction either as a mixed number with the fraction in lowest terms or as a whole number.

- | | | | | | |
|---------------------|---------------------|---------------------|---------------------|---------------------|-----------------------|
| (S) $\frac{9}{4}$ | (A) $\frac{18}{5}$ | (E) $\frac{15}{8}$ | (O) $\frac{31}{6}$ | (D) $\frac{6}{4}$ | (N) $\frac{12}{9}$ |
| (G) $\frac{14}{8}$ | (D) $\frac{16}{6}$ | (A) $\frac{48}{10}$ | (N) $\frac{20}{12}$ | (O) $\frac{28}{7}$ | (I) $\frac{27}{3}$ |
| (U) $\frac{40}{11}$ | (E) $\frac{44}{24}$ | (W) $\frac{73}{10}$ | (N) $\frac{26}{16}$ | (H) $\frac{45}{15}$ | (P) $\frac{100}{100}$ |

4	$1\frac{1}{3}$	$1\frac{5}{6}$	$3\frac{4}{11}$	$7\frac{3}{10}$	$1\frac{7}{8}$	9	$1\frac{3}{4}$	3	$2\frac{1}{4}$	$1\frac{1}{8}$	$4\frac{4}{5}$	$7\frac{9}{10}$	1	$5\frac{1}{6}$	$3\frac{7}{11}$	$1\frac{5}{8}$	$1\frac{1}{2}$	$4\frac{1}{5}$	$3\frac{3}{5}$	$1\frac{2}{3}$	$2\frac{2}{3}$
---	----------------	----------------	-----------------	-----------------	----------------	---	----------------	---	----------------	----------------	----------------	-----------------	---	----------------	-----------------	----------------	----------------	----------------	----------------	----------------	----------------

II. Write each mixed number as an improper fraction.

- | | | | | | |
|----------------------|--------------------|---------------------|--------------------|---------------------|----------------------|
| (H) $2\frac{2}{3}$ | (A) $4\frac{1}{2}$ | (T) $1\frac{7}{10}$ | (O) $3\frac{1}{7}$ | (E) $7\frac{2}{5}$ | (S) $4\frac{5}{6}$ |
| (T) $2\frac{3}{8}$ | (D) $5\frac{5}{9}$ | (E) $1\frac{7}{12}$ | (H) $3\frac{1}{4}$ | (Y) $4\frac{3}{16}$ | (R) $10\frac{8}{15}$ |
| (U) $2\frac{11}{24}$ | (O) $1\frac{5}{7}$ | (P) $9\frac{3}{4}$ | (A) $4\frac{3}{5}$ | (N) $33\frac{1}{3}$ | (W) $17\frac{1}{2}$ |

$\frac{44}{9}$	$\frac{17}{10}$	$\frac{13}{4}$	$\frac{37}{5}$	$\frac{54}{24}$	$\frac{12}{7}$	$\frac{19}{8}$	$\frac{8}{3}$	$\frac{19}{12}$	$\frac{158}{15}$	$\frac{79}{16}$	$\frac{39}{4}$	$\frac{22}{7}$	$\frac{59}{24}$	$\frac{100}{3}$	$\frac{50}{9}$	$\frac{29}{6}$	$\frac{35}{4}$	$\frac{9}{2}$	$\frac{35}{2}$	$\frac{23}{5}$	$\frac{67}{16}$
----------------	-----------------	----------------	----------------	-----------------	----------------	----------------	---------------	-----------------	------------------	-----------------	----------------	----------------	-----------------	-----------------	----------------	----------------	----------------	---------------	----------------	----------------	-----------------

Why Did the Football Coach Send in a Bunch of Second-String Players?

Simplify each fraction on the top curve and find your answer on the bottom curve. Draw a straight line connecting each exercise to its answer. The line will cross a number and a letter. Write the letter in the matching numbered box at the bottom of the page.

Top curve fractions (clockwise from top-left):

 $\frac{10}{12}, \frac{3}{3}, \frac{4}{5}, \frac{8}{18}, \frac{50}{70}, \frac{20}{3}, \frac{15}{6}, \frac{30}{8}, \frac{100}{75}, \frac{96}{10}, \frac{20}{32}, \frac{15}{2}, \frac{35}{100}, \frac{36}{15}, \frac{16}{30}, \frac{12}{22}, \frac{48}{60}, \frac{50}{360}, \frac{180}{360}, \frac{8}{12}$

Bottom curve fractions (clockwise from bottom-left):

 $\frac{6}{4}, \frac{20}{7}, \frac{1}{5}, \frac{2}{1}, \frac{9}{3}, \frac{6}{5}, \frac{6}{3}, \frac{4}{5}, 3, \frac{2}{5}, 2\frac{2}{5}, \frac{5}{8}, 5\frac{5}{9}, \frac{5}{7}, 1\frac{1}{3}, \frac{1}{4}, 2\frac{1}{2}, \frac{8}{15}, 7\frac{1}{2}, \frac{4}{9}$

Numbered boxes (1-20) and letters (A, H, I, G, E, T, D, N, M, E) are scattered in the center of the page.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----

What Happens If You Watch TV All Day?

For each exercise, write the missing numerator(s). Then compare the fractions. Write $>$ or $<$ in each \bigcirc .

Circle the letter in the corresponding column and write this letter in the box containing the exercise number.

				$>$	$<$													
1	$\frac{2}{3} = \frac{\quad}{12}$	$\frac{3}{4} = \frac{\quad}{12}$	$\frac{2}{3} \bigcirc \frac{3}{4}$	R	E													
2	$\frac{1}{4} = \frac{\quad}{20}$	$\frac{2}{5} = \frac{\quad}{20}$	$\frac{1}{4} \bigcirc \frac{2}{5}$	A	O													
3	$\frac{5}{6} = \frac{\quad}{18}$	$\frac{7}{9} = \frac{\quad}{18}$	$\frac{5}{6} \bigcirc \frac{7}{9}$	T	F													
4	$\frac{5}{8} = \frac{\quad}{24}$	$\frac{2}{3} = \frac{\quad}{24}$	$\frac{5}{8} \bigcirc \frac{2}{3}$	V	C													
5	$\frac{2}{15} = \frac{\quad}{30}$	$\frac{1}{10} = \frac{\quad}{30}$	$\frac{2}{15} \bigcirc \frac{1}{10}$	E	N													
6	$\frac{3}{4} = \frac{\quad}{16}$		$\frac{3}{4} \bigcirc \frac{11}{16}$	U	T													
7	$\frac{5}{7} = \frac{\quad}{21}$		$\frac{5}{7} \bigcirc \frac{17}{21}$	B	S													
8	$\frac{2}{5} = \frac{\quad}{25}$		$\frac{2}{5} \bigcirc \frac{9}{25}$	E	A													
9	$\frac{7}{8} = \frac{\quad}{16}$		$\frac{7}{8} \bigcirc \frac{13}{16}$	Y	F													
10	$\frac{3}{4} = \frac{\quad}{20}$	$\frac{7}{10} = \frac{\quad}{20}$	$\frac{3}{4} \bigcirc \frac{7}{10}$	K	H													
11	$\frac{3}{8} = \frac{\quad}{24}$	$\frac{5}{12} = \frac{\quad}{24}$	$\frac{3}{8} \bigcirc \frac{5}{12}$	D	G													
12	$\frac{13}{15} = \frac{\quad}{30}$	$\frac{5}{6} = \frac{\quad}{30}$	$\frac{13}{15} \bigcirc \frac{5}{6}$	I	O													
13	$\frac{2}{9} = \frac{\quad}{36}$		$\frac{2}{9} \bigcirc \frac{7}{36}$	S	L													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;">9</td> <td style="width: 20px; height: 20px;">2</td> <td style="width: 20px; height: 20px;">6</td> <td style="width: 20px; height: 20px;">11</td> <td style="width: 20px; height: 20px;">8</td> <td style="width: 20px; height: 20px;">3</td> <td style="width: 20px; height: 20px;">13</td> <td style="width: 20px; height: 20px;">1</td> <td style="width: 20px; height: 20px;">5</td> <td style="width: 20px; height: 20px;">7</td> <td style="width: 20px; height: 20px;">12</td> <td style="width: 20px; height: 20px;">4</td> <td style="width: 20px; height: 20px;">10</td> </tr> </table>						9	2	6	11	8	3	13	1	5	7	12	4	10
9	2	6	11	8	3	13	1	5	7	12	4	10						

BOOKS NEVER WRITTEN

Escape to the Forest by $\frac{13}{9}$ $\frac{17}{6}$ $\frac{8}{15}$ $\frac{7}{2}$ $\frac{3}{3}$ $\frac{15}{10}$

End of the Semester by $\frac{17}{14}$ $\frac{1}{16}$ $\frac{7}{11}$ $\frac{3}{16}$ $\frac{5}{5}$

Stunt Driving for Fun by $\frac{4}{16}$ $\frac{4}{12}$ $\frac{17}{7}$ $\frac{16}{16}$ $\frac{10}{10}$

ABOVE ARE THE TITLES OF THREE "BOOKS NEVER WRITTEN." TO DECODE THE NAMES OF THEIR AUTHORS:

For each exercise, compare the fractions or mixed numbers. Write $>$ or $<$ in each \bigcirc . Circle the letter above the LARGER number. Write this letter above the exercise number each time it appears in the code.

1.

Y	G
---	---

 $\frac{2}{3} \bigcirc \frac{3}{5}$

2.

K	W
---	---

 $\frac{1}{4} \bigcirc \frac{2}{7}$

3.

O	S
---	---

 $\frac{5}{6} \bigcirc \frac{7}{10}$

4.

E	M
---	---

 $\frac{1}{3} \bigcirc \frac{2}{9}$

5.

D	T
---	---

 $\frac{5}{16} \bigcirc \frac{3}{8}$

6.

I	R
---	---

 $\frac{7}{10} \bigcirc \frac{5}{8}$

7.

A	L
---	---

 $\frac{5}{8} \bigcirc \frac{7}{12}$

8.

H	N
---	---

 $\frac{1}{6} \bigcirc \frac{7}{30}$

9.

U	P
---	---

 $3\frac{6}{7} \bigcirc 3\frac{5}{7}$

10.

V	S
---	---

 $2\frac{3}{4} \bigcirc 2\frac{5}{6}$

11.

J	P
---	---

 $5\frac{1}{3} \bigcirc 5\frac{3}{8}$

12.

X	Z
---	---

 $1\frac{1}{4} \bigcirc 1\frac{5}{32}$

13.

L	G
---	---

 $4\frac{7}{9} \bigcirc 4\frac{3}{4}$

14.

M	B
---	---

 $7\frac{5}{12} \bigcirc 7\frac{2}{5}$

15.

H	D
---	---

 $2\frac{1}{2} \bigcirc 2\frac{4}{7}$

16. Which package is heavier:

- (R) One that weighs $1\frac{3}{4}$ pounds; or
(F) One that weighs $1\frac{5}{8}$ pounds?

17. Which insect is longer:

- (V) One that measures $\frac{3}{8}$ inch; or
(C) One that measures $\frac{2}{5}$ inch?

Why Was the Zoo Worker Fired for Feeding the Monkeys?

Do each exercise and find your answer to the right. Write the letter of the answer in the box containing the number of the exercise. If the answer has a ●, shade in the box instead of writing a letter in it.

I. Write each fraction in lowest terms.

① $\frac{9}{12}$

② $\frac{8}{18}$

③ $\frac{25}{40}$

④ $\frac{12}{36}$

⑤ $\frac{30}{100}$

⑥ $\frac{16}{20}$

⑦ $\frac{16}{32}$

⑧ $\frac{15}{48}$

Answers	○ $\frac{4}{5}$	○ $\frac{4}{9}$
○ $\frac{2}{5}$	○ $\frac{5}{8}$	○ $\frac{3}{8}$
○ $\frac{3}{4}$	○ $\frac{3}{10}$	○ $\frac{5}{16}$
● $\frac{1}{2}$	○ $\frac{2}{3}$	● $\frac{1}{3}$

II. Write each improper fraction as a mixed number and each mixed number as an improper fraction.

⑨ $\frac{23}{5}$

⑩ $\frac{18}{8}$

⑪ $\frac{20}{12}$

⑫ $\frac{45}{18}$

⑬ $3\frac{3}{4}$

⑭ $8\frac{3}{10}$

⑮ $4\frac{7}{15}$

⑯ $1\frac{11}{12}$

Answers	○ $\frac{20}{12}$	○ $2\frac{1}{2}$
● $\frac{83}{10}$	○ $1\frac{2}{3}$	○ $\frac{67}{15}$
○ $\frac{72}{15}$	○ $\frac{23}{12}$	
○ $4\frac{3}{5}$	○ $\frac{15}{4}$	● $2\frac{1}{4}$

III. Write a > or < in each ○. Then choose the SMALLER fraction and find it among the answers.

⑰ $\frac{2}{3}$ ○ $\frac{7}{9}$

⑱ $\frac{2}{5}$ ○ $\frac{1}{3}$

⑲ $\frac{1}{4}$ ○ $\frac{2}{9}$

⑳ $\frac{5}{8}$ ○ $\frac{7}{12}$

㉑ $\frac{2}{5}$ ○ $\frac{3}{10}$

㉒ $\frac{4}{7}$ ○ $\frac{1}{2}$

㉓ $\frac{5}{8}$ ○ $\frac{11}{16}$

㉔ $\frac{3}{10}$ ○ $\frac{1}{4}$

Answers	● $\frac{11}{16}$	○ $\frac{7}{12}$
○ $\frac{1}{2}$	○ $\frac{2}{3}$	○ $\frac{5}{8}$
● $\frac{2}{9}$	○ $\frac{1}{4}$	○ $\frac{1}{3}$
○ $\frac{7}{9}$	○ $\frac{2}{5}$	○ $\frac{3}{10}$

3	13	10	22	8	15	19	1	17	2	20	4	24	6	14	12	9	18	7	23	5	16	21	11
---	----	----	----	---	----	----	---	----	---	----	---	----	---	----	----	---	----	---	----	---	----	----	----

What Did People Say About Mr. and Ms. Snuggle After They Camped for 99 Nights in a Row?

Estimate each sum. Under each exercise, circle the letter of the better choice. Write this letter in the box containing the number of the exercise.

① $\frac{1}{2} + \frac{3}{8}$

V greater than 1
E less than 1

② $\frac{7}{16} + \frac{1}{2}$

F greater than 1
N less than 1

③ $\frac{1}{2} + \frac{4}{7}$

T greater than 1
R less than 1

④ $\frac{2}{3} + \frac{7}{12}$

E greater than 1
P less than 1

⑤ $\frac{3}{10} + \frac{4}{9}$

L greater than 1
Y less than 1

⑥ $\frac{5}{8} + \frac{1}{20}$

G greater than 1
W less than 1

⑦ $\frac{15}{16} + \frac{1}{3}$

S greater than 1
D less than 1

⑧ $\frac{2}{5} + \frac{9}{10}$

E greater than 1
K less than 1

⑨ $\frac{1}{12} + \frac{6}{11}$

R greater than 1
H less than 1

⑩ $\frac{3}{5} + \frac{4}{9}$

R about 1
N about 2

⑪ $\frac{7}{8} + \frac{12}{13}$

U about 1
T about 2

⑫ $\frac{8}{15} + \frac{3}{7}$

O about 1
Y about 2

⑬ $\frac{5}{6} + \frac{9}{10} + \frac{1}{4}$

A about 1
E about 2

⑭ $\frac{1}{3} + \frac{3}{8} + \frac{2}{11}$

T about 1
S about 2

⑮ $\frac{13}{16} + \frac{1}{10} + \frac{3}{25}$

W about 1
P about 2

⑯ $\frac{1}{4} + \frac{3}{11}$

I about $\frac{1}{2}$
A about 1
O about $1\frac{1}{2}$

⑰ $\frac{17}{18} + \frac{2}{5} + \frac{4}{15}$

R about $\frac{1}{2}$
S about 1
N about $1\frac{1}{2}$

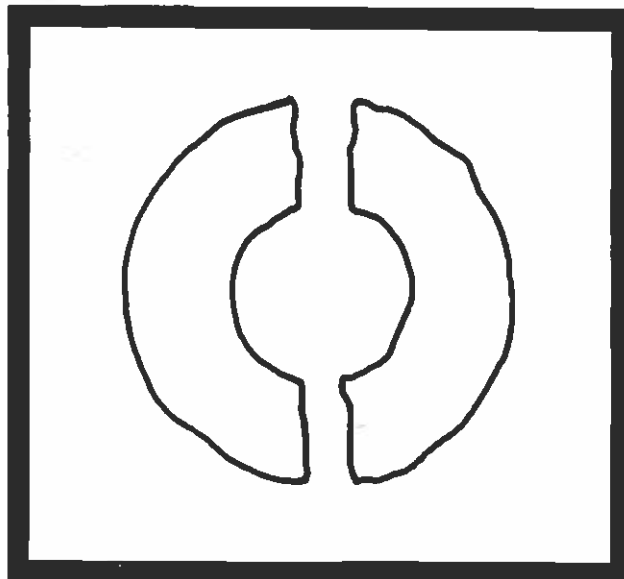
⑱ $\frac{3}{7} + \frac{7}{16} + \frac{2}{13}$

S about $\frac{1}{2}$
T about 1
G about $1\frac{1}{2}$

3	9	13	5		15	1	10	8		18	6	12		16	2		14	4	17	11	7
---	---	----	---	--	----	---	----	---	--	----	---	----	--	----	---	--	----	---	----	----	---

LAW OF THE DONUT

What Famous Rule of Donuts Is Illustrated by This Picture?



DIRECTIONS:

Do each exercise below. Find your answer in the code and write the letter of the exercise above it.

Law of the Donut:

4	$2\frac{2}{5}$	$1\frac{2}{3}$	$1\frac{2}{9}$	$\frac{3}{10}$	$2\frac{1}{3}$	$\frac{3}{4}$	$1\frac{1}{4}$	$2\frac{3}{7}$	$1\frac{4}{5}$	$1\frac{3}{4}$
$2\frac{1}{2}$	$\frac{2}{3}$	$1\frac{5}{9}$	$\frac{1}{2}$	$1\frac{5}{8}$	2	$1\frac{7}{10}$	$\frac{3}{5}$	$1\frac{1}{2}$	$1\frac{3}{5}$	$1\frac{1}{6}$

(E) $\frac{7}{8} - \frac{3}{8}$

(A) $\frac{2}{3} + \frac{5}{3}$

(S) $\frac{6}{5} + \frac{3}{5}$

(O) $\frac{9}{4} - \frac{3}{4}$

(A) $\frac{1}{9} + \frac{5}{9}$

(E) $\frac{19}{12} - \frac{5}{12}$

(W) $\frac{7}{10} + \frac{17}{10}$

(L) $\frac{15}{16} - \frac{3}{16}$

(A) $\frac{13}{6} - \frac{1}{6}$

(E) $\frac{9}{7} + \frac{3}{7} + \frac{5}{7}$

(O) $\frac{8}{15} + \frac{4}{15} + \frac{13}{15}$

(M) $\frac{5}{12} + \frac{11}{12} + \frac{14}{12}$

(H) $\frac{9}{20}$
 $-\frac{3}{20}$

(K) $\frac{16}{9}$
 $-\frac{2}{9}$

(T) $\frac{5}{2}$
 $+\frac{3}{2}$

(H) $\frac{67}{100}$
 $-\frac{7}{100}$

(V) Rugged Carpet Company installed $\frac{7}{8}$ -inch carpet over $\frac{3}{8}$ -inch padding. What was the combined thickness?

_____ in.

(L) Bert walked $\frac{9}{10}$ mile to Ernie's house. Then Bert and Ernie walked $\frac{7}{10}$ mile to the park. How far did Bert walk altogether? _____ mi