Why Are Broken Clocks So Quiet?

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 $\frac{2}{3} = \frac{\quad}{12}$
$+\ \frac{1}{4} = \frac{\quad}{12}$

② $\frac{2}{5} = \frac{\quad}{15}$
$+\ \frac{1}{3} = \frac{\quad}{15}$

③ $\frac{1}{2} = \frac{\quad}{8}$
$+\ \frac{3}{8} = \frac{\quad}{8}$

④ $\frac{2}{3} = \frac{\quad}{6}$
$+\ \frac{1}{2} = \frac{\quad}{6}$

⑤ $\frac{1}{2} = \frac{\quad}{10}$
$+\ \frac{4}{5} = \frac{\quad}{10}$

⑥ $\frac{3}{4} = \frac{\quad}{8}$
$+\ \frac{5}{8} = \frac{\quad}{8}$

⑦ $\frac{1}{3} = \frac{\quad}{6}$
$+\ \frac{1}{6} = \frac{\quad}{6}$

⑧ $\frac{3}{5} = \frac{\quad}{20}$
$+\ \frac{1}{4} = \frac{\quad}{20}$

⑨ $\frac{5}{6} = \frac{\quad}{18}$
$+\ \frac{4}{9} = \frac{\quad}{18}$

⑩ $\frac{2}{3} = \frac{\quad}{24}$
$+\ \frac{3}{8} = \frac{\quad}{24}$

⑪ $\frac{1}{2} = \frac{\quad}{10}$
$+\ \frac{3}{10} = \frac{\quad}{10}$

⑫ $\frac{3}{4} = \frac{\quad}{12}$
$+\ \frac{5}{6} = \frac{\quad}{12}$

⑬ $\frac{4}{5} = \frac{\quad}{10}$
$+\ \frac{7}{10} = \frac{\quad}{10}$

⑭ $\frac{1}{3} = \frac{\quad}{12}$
$+\ \frac{5}{12} = \frac{\quad}{12}$

⑮ $\frac{7}{8} = \frac{\quad}{24}$
$+\ \frac{5}{6} = \frac{\quad}{24}$

⑯ $\frac{2}{5} = \frac{\quad}{40}$
$+\ \frac{3}{8} = \frac{\quad}{40}$

SO	IT	TH	ET	IM	IF	EY	IX	IT	DO	OR
$1\frac{1}{6}$	$1\frac{17}{24}$	$1\frac{11}{18}$	$1\frac{3}{8}$	$\frac{11}{15}$	$\frac{4}{5}$	$1\frac{1}{12}$	$1\frac{5}{18}$	$\frac{3}{4}$	$1\frac{13}{24}$	$\frac{7}{8}$
BE	NT	IN	TO	AC	AN	LO	CK	UD	TI	ME
$1\frac{1}{2}$	$\frac{13}{20}$	$1\frac{1}{24}$	$\frac{27}{40}$	$\frac{1}{2}$	$\frac{11}{12}$	$\frac{31}{40}$	$1\frac{5}{24}$	$1\frac{7}{12}$	$1\frac{3}{10}$	$\frac{17}{20}$

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Why Did the Boy Sheep Plunge Off a Cliff While Chasing the Girl Sheep?

For each exercise, write an estimate of the answer. On the number line under the exercise, find a point near your estimate. Write the letter of the exercise on the number line at that point.

(N) $3\frac{9}{10} + 2\frac{13}{16}$

(E) $1\frac{1}{8} + \frac{11}{13}$

(T) $2\frac{4}{9} + 5\frac{1}{2}$

(E) $3\frac{11}{12} + 7\frac{3}{8}$

(D) $5\frac{1}{3} - 1\frac{2}{7}$

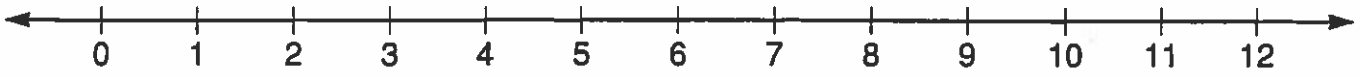
(H) $12\frac{5}{6} - 11\frac{8}{9}$

(I) $1\frac{3}{4} + 3\frac{3}{16} + \frac{1}{9}$

(S) $3\frac{7}{10} + 4\frac{1}{15} + 2\frac{2}{13}$

(E) Betsy needed some fabric to make flags. She bought $4\frac{1}{8}$ yd of red fabric, $4\frac{2}{3}$ yd of white fabric, and $3\frac{1}{4}$ yd of blue fabric. About how much fabric did she buy altogether? _____ yd

(D) Diane went salmon fishing with her father. Diane caught a fish that weighed $16\frac{3}{8}$ lb. Her father caught one that weighed $10\frac{1}{16}$ lb. About how much heavier was Diane's fish? _____ lb



(E) $12\frac{1}{5} + 8\frac{2}{11}$

(T) $3\frac{5}{12} + 10\frac{4}{7}$

(U) $7\frac{1}{6} + 15\frac{7}{9}$

(N) $27\frac{7}{8} - 2\frac{4}{5}$

(E) $20\frac{3}{10} - 4\frac{1}{3}$

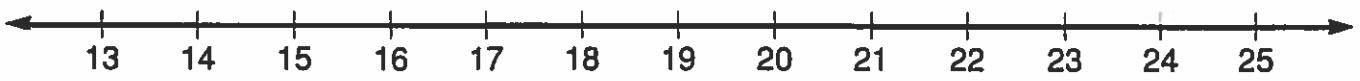
(W) $59\frac{9}{16} - 40\frac{1}{2}$

(H) $9\frac{2}{3} + \frac{3}{20} + 5\frac{1}{4}$

(T) $11\frac{6}{7} + (13\frac{1}{5} - 3\frac{1}{11})$

(R) A plumber had a piece of pipe that was $27\frac{7}{8}$ in. long. He cut off a piece $3\frac{3}{4}$ in. long and used it to repair the sink. About how long was the remaining piece of pipe? _____ in.

(E) Mario is training for the track team. He ran $4\frac{1}{4}$ mi on Monday, $5\frac{9}{10}$ mi on Wednesday, and $7\frac{4}{5}$ mi on Friday. About how far did he run altogether on the three days? _____ mi



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Cryptic Quiz

1. What do you call a seafood that drives you home?

$13\frac{1}{3}$	$70\frac{9}{11}$	$12\frac{2}{3}$	$13\frac{1}{3}$	$10\frac{2}{3}$	$10\frac{1}{5}$	$23\frac{1}{8}$	$45\frac{1}{6}$	$8\frac{2}{5}$	$13\frac{1}{3}$	$22\frac{1}{2}$

2. What does a skunk bring to church with him?

$90\frac{3}{10}$	$10\frac{1}{5}$	$84\frac{3}{4}$	$14\frac{2}{3}$	$71\frac{8}{11}$	$46\frac{1}{4}$	$8\frac{1}{3}$	$45\frac{2}{3}$	$10\frac{1}{2}$	14	$46\frac{1}{4}$

3. What does an English setter use to buy food?

$13\frac{1}{3}$	$45\frac{1}{7}$	$23\frac{5}{8}$	$71\frac{8}{11}$	$44\frac{4}{7}$	$10\frac{4}{5}$	$10\frac{1}{2}$	$71\frac{8}{11}$	$7\frac{1}{2}$	$8\frac{1}{3}$	$23\frac{5}{8}$

Do each exercise below and find your answer in the code. Each time the answer appears, write the letter of the exercise above it.

(R) $4\frac{3}{5} + 3\frac{4}{5}$ _____

(U) $1\frac{7}{8} + 5\frac{5}{8}$ _____

(I) $7\frac{3}{10} + 2\frac{9}{10}$ _____

(T) $3\frac{5}{6} + 8\frac{5}{6}$ _____

(E) $9\frac{5}{13} + 4\frac{8}{13}$ _____

(N) $6\frac{5}{9} + 1\frac{7}{9}$ _____

(B) $15\frac{1}{4} + 7\frac{1}{4}$ _____

(H) $38\frac{17}{20} + 51\frac{9}{20}$ _____

(O) $27\frac{5}{11} + 44\frac{3}{11}$ _____

(S) $64\frac{13}{16} + 19\frac{15}{16}$ _____

(X) $8\frac{11}{15} + 1\frac{14}{15}$ _____

(G) $9\frac{5}{7} + 34\frac{6}{7}$ _____

(C) $15\frac{17}{24} + 29\frac{11}{24}$ _____

(D) $12\frac{1}{8} + 3\frac{7}{8} + 7\frac{5}{8}$ _____

(W) $20\frac{5}{12} + 8\frac{5}{12} + 17\frac{5}{12}$ _____

(A) Last week, minor league pitcher Lefty Spitt pitched $7\frac{2}{3}$ innings on Monday and $5\frac{2}{3}$ innings on Friday. How many innings did he pitch last week altogether? _____

(P) It took Smedley $5\frac{3}{4}$ hours to climb to the top of a mountain. It took $3\frac{1}{4}$ hours to climb down. If he spent $1\frac{1}{2}$ hours at the top, how long did the climb take? _____ h

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Which Italian Insects Most Often Fall in Love?

Do each exercise and find your answer at the bottom of the page. Cross out the letter above each correct answer. When you finish, the answer to the title question will remain.

① $3\frac{1}{2} + 4\frac{3}{10}$ = _____

② $7\frac{7}{9} + 1\frac{1}{3}$ = _____

③ $4\frac{3}{4} + 9\frac{2}{5}$ = _____

④ $2\frac{7}{8} + 5\frac{1}{2}$ = _____

⑤ $1\frac{5}{6} + 6\frac{2}{3}$ = _____

⑥ $10\frac{1}{4} + 7\frac{5}{12}$ = _____

⑦ $3\frac{7}{9} + 8\frac{5}{6}$ = _____

⑧ $34\frac{3}{5} + 29\frac{1}{3}$ = _____

⑨ $71\frac{6}{7} + 6\frac{1}{2}$ = _____

⑩ $18\frac{2}{3} + 18\frac{7}{12}$ = _____

⑪ $8\frac{3}{8} + 5\frac{1}{5}$ = _____

⑫ $50\frac{1}{6} + 11\frac{9}{10}$ = _____

⑬ Ms. Baker's recipe for rye bread calls for $3\frac{1}{4}$ cups of white flour, $5\frac{2}{3}$ cups of rye flour, and $2\frac{1}{2}$ tablespoons of butter. How much flour is used altogether? _____ c

⑭ The legs on a computer table are $23\frac{7}{8}$ inches high. The top is 24 inches wide, 48 inches long, and $1\frac{3}{16}$ inches thick. How high above the floor is the table surface? _____ in.

B	R	E	U	O	G	L	M	P	S	E	A	G	N	H	A	I	T	O	N	S	E
$62\frac{1}{15}$	$13\frac{7}{20}$	$9\frac{1}{9}$	$78\frac{5}{14}$	$8\frac{3}{4}$	$12\frac{11}{18}$	$25\frac{1}{16}$	$25\frac{1}{4}$	$8\frac{3}{8}$	$37\frac{1}{4}$	$12\frac{11}{14}$	$78\frac{11}{14}$	$7\frac{4}{5}$	$62\frac{4}{15}$	$63\frac{14}{15}$	$8\frac{11}{12}$	$8\frac{1}{2}$	$37\frac{5}{8}$	$13\frac{23}{40}$	$14\frac{3}{20}$	$17\frac{1}{4}$	$17\frac{2}{3}$

MIDDLE SCHOOL MATH WITH PIZZAZZ! BOOK C
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Why Did Airhead Eat the Dollar He Brought to School3

Do each exercise and find your answer at the bottom of the page. Write the letter of the exercise in the box above the answer.

(S) $\frac{1}{2} + \frac{1}{3}$	(O) $\frac{2}{5} + \frac{1}{2}$	(T) $\frac{1}{2} + \frac{1}{4}$	(I) $\frac{1}{3} + \frac{4}{9}$	(Y) $\frac{1}{5} + \frac{2}{3}$	(U) $\frac{5}{8} + \frac{1}{4}$
(A) $\frac{1}{3} + \frac{5}{6}$	(H) $\frac{1}{2} + \frac{7}{8}$	(I) $\frac{3}{4} + \frac{2}{3}$	(S) $\frac{7}{16} + \frac{9}{16}$	(N) $\frac{1}{6} + \frac{4}{9}$	(W) $\frac{1}{4} + \frac{4}{5}$
(C) $\frac{1}{8} + \frac{2}{3}$	(H) $\frac{1}{2} + \frac{1}{6}$	(E) $\frac{3}{10} + \frac{1}{2}$	(L) $\frac{4}{15} + \frac{1}{3}$	(M) $\frac{3}{4} + \frac{7}{12}$	(N) $\frac{5}{6} + \frac{3}{10}$

$1\frac{5}{12}$	$\frac{3}{4}$	$\frac{13}{18}$	$1\frac{1}{20}$	$1\frac{1}{6}$	$\frac{5}{6}$	$\frac{7}{20}$	$\frac{2}{3}$	$\frac{7}{9}$	1	$1\frac{1}{8}$	$\frac{3}{5}$	$\frac{7}{8}$	$\frac{2}{15}$	$\frac{19}{24}$	$\frac{3}{8}$	$1\frac{1}{12}$	$1\frac{1}{3}$	$\frac{9}{10}$	$\frac{11}{18}$	$\frac{4}{5}$	$\frac{13}{15}$

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What Do You Get When You...

1. Cross a pig with a centipede?

___	___	___	___	___	___	___	___	___	___	___	___	___	___
$1\frac{1}{2}$	$\frac{3}{4}$	$\frac{7}{9}$	$1\frac{2}{15}$	$1\frac{4}{15}$	$1\frac{7}{8}$	$\frac{3}{4}$	$1\frac{4}{5}$	$1\frac{1}{10}$	$\frac{7}{12}$	$1\frac{5}{8}$	$\frac{3}{5}$	$1\frac{1}{4}$	$1\frac{1}{12}$

2. Cross a zebra with an ape man?

___	___	___	___	___	___	___	___	___	___	___	___	___	___
$\frac{7}{8}$	$\frac{3}{4}$	$\frac{17}{18}$	$\frac{5}{6}$	$\frac{3}{4}$	$1\frac{4}{15}$	$\frac{23}{24}$	$1\frac{1}{12}$	$\frac{7}{8}$	$\frac{17}{18}$	$\frac{11}{20}$	$1\frac{1}{8}$	$\frac{3}{5}$	$1\frac{1}{12}$

3. Cross 3 songs with 12 hot fudge sundaes?

___	___	___	___	___	___	___	___	___	___
$1\frac{3}{14}$	$\frac{3}{4}$	$\frac{7}{8}$	$\frac{13}{18}$	$\frac{7}{9}$	$1\frac{7}{24}$	$\frac{3}{4}$	$1\frac{4}{15}$	$\frac{7}{8}$	$1\frac{1}{12}$

Do each exercise below and find your answer in the code. Each time the answer appears, write the letter of the exercise above it.

(D) $\frac{1}{2} + \frac{3}{5}$ ___

(C) $\frac{2}{3} + \frac{1}{9}$ ___

(F) $\frac{5}{7} + \frac{1}{2}$ ___

(E) $\frac{7}{15} + \frac{2}{15}$ ___

(S) $\frac{1}{4} + \frac{5}{6}$ ___

(O) $\frac{4}{5} + \frac{1}{3}$ ___

(I) $\frac{3}{10} + \frac{1}{4}$ ___

(H) $\frac{2}{3} + \frac{5}{8}$ ___

(B) $\frac{3}{5} + \frac{9}{10}$ ___

(R) $\frac{1}{6} + \frac{7}{9}$ ___

(L) $\frac{7}{8} + \frac{3}{4}$ ___

(Z) $\frac{3}{10} + \frac{8}{15}$ ___

(P) $\frac{5}{24} + \frac{11}{24} + \frac{11}{24}$ ___

(G) $\frac{2}{5} + \frac{3}{4} + \frac{1}{10}$ ___

(N) $\frac{1}{2} + \frac{3}{5} + \frac{1}{6}$ ___

(A) Jenny refinished a wooden table. She used $\frac{1}{3}$ can of varnish for a first coat, $\frac{1}{4}$ can for a second coat, and $\frac{1}{6}$ can for a third coat. What fraction of the can did she use in all?

_____

(T) A window is made using 2 panes of glass with an air space between them. Each pane of glass is $\frac{3}{16}$ inch thick, and the separation between panes is $\frac{1}{2}$ inch. How thick is the window?

_____ in.

LAST LINE

A careless zookeeper named Blake
Fell into a tropical lake
Said a fat alligator
A few moments later ...

"

$\frac{17}{40}$	$\frac{11}{18}$	$\frac{1}{6}$	$\frac{17}{28}$	$\frac{7}{18}$	$\frac{3}{5}$	$\frac{3}{16}$	$\frac{3}{16}$	$\frac{3}{8}$	$\frac{11}{28}$	$\frac{1}{2}$	$\frac{37}{100}$	$\frac{11}{12}$	$\frac{13}{36}$	$\frac{1}{15}$	$\frac{5}{12}$

!"

$\frac{19}{36}$	$\frac{11}{12}$	$\frac{1}{15}$	$\frac{11}{24}$	$\frac{11}{24}$	$\frac{23}{40}$	$\frac{7}{12}$	$\frac{1}{6}$	$\frac{11}{18}$	$\frac{1}{4}$	$\frac{11}{18}$	$\frac{1}{6}$	$\frac{5}{8}$	$\frac{19}{36}$	$\frac{11}{12}$	$\frac{11}{18}$	$\frac{2}{5}$	$1\frac{1}{24}$

To decode the last line of this limerick: Do each exercise below and find your answer in the code. Each time the answer appears, write the letter of the exercise above it.

(D) $\frac{7}{8} - \frac{1}{2}$

(I) $\frac{2}{3} - \frac{3}{5}$

(P) $\frac{3}{4} - \frac{1}{6}$

(B) $\frac{9}{10} - \frac{2}{5}$

(L) $\frac{5}{6} - \frac{3}{8}$

(A) $\frac{19}{20} - \frac{11}{20}$

(Y) $\frac{6}{7} - \frac{1}{4}$

(E) $\frac{5}{6} - \frac{2}{9}$

(U) $\frac{67}{100} - \frac{3}{10}$

(F) $\frac{7}{12} - \frac{1}{3}$

(V) $\frac{4}{5} - \frac{3}{8}$

(S) $\frac{7}{9} - \frac{1}{4}$

(G) $\left(\frac{2}{5} + \frac{1}{2}\right) - \frac{3}{10}$

(K) $\frac{5}{8} + \left(\frac{2}{3} - \frac{1}{4}\right)$

(O) $\frac{16}{16} - \left(\frac{3}{4} + \frac{1}{16}\right)$

(R) Razzle Shoes bought a $\frac{1}{2}$-page ad in the Times. Dazzle Shoes bought two ads that were $\frac{1}{6}$ page each. How much more advertising did Razzle Shoes buy?

____ page

(T) Jill made a sauce in cooking class. She used $\frac{1}{2}$ cup of milk, $\frac{2}{3}$ cup of cream, and $\frac{1}{4}$ cup of water. How much less water was used than milk and cream combined?

_____ c

C-40

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Did You Hear About...

A	B	C	D	E	F	G	H	I
J	K	L	M	N	O	P	Q	?

Do each exercise and find your answer in one of the answer columns. Notice the word next to the answer. Write this word in the box containing the letter of the exercise.

(A) $\begin{array}{r} \frac{1}{4} \\ +\ \frac{3}{5} \\ \hline \end{array}$ (B) $\begin{array}{r} \frac{5}{6} \\ -\ \frac{4}{9} \\ \hline \end{array}$ (C) $\begin{array}{r} \frac{9}{10} \\ +\ \frac{1}{2} \\ \hline \end{array}$ (D) $\begin{array}{r} \frac{2}{3} \\ -\ \frac{5}{12} \\ \hline \end{array}$

(E) $\frac{3}{8} + \frac{9}{16}$ (F) $\frac{7}{10} - \frac{1}{5}$ (G) $\frac{1}{3} + \frac{7}{8}$ (H) $\frac{3}{4} - \frac{1}{10}$

(I) $\frac{1}{2} + \frac{2}{7}$ (J) $\frac{4}{5} - \frac{1}{6}$ (K) $\frac{9}{16} + \frac{15}{16}$ (L) $\frac{7}{10} - \frac{8}{15}$

(M) $\left(\frac{7}{8} - \frac{1}{4}\right) + \frac{1}{2}$ (N) $\frac{19}{20} - \left(\frac{1}{2} - \frac{3}{10}\right)$ (O) $\frac{1}{10} + \frac{1}{100} + \frac{1}{1{,}000}$

(P) A BigBurger has $\frac{1}{4}$ pound of meat. A SuperBurger has $\frac{1}{3}$ pound of meat. How much more meat is used for the SuperBurger? _____ lb

(Q) Kent walked $\frac{3}{4}$ of a mile on Monday. On Tuesday, he walked $\frac{1}{8}$ of a mile less than on Monday. How far did he walk altogether? _____ mi

$1\frac{5}{24}$	INSTRUMENTS
$\frac{3}{24}$	BRUSH
$\frac{111}{1{,}000}$	NEW
$\frac{19}{30}$	BECAUSE
$\frac{3}{4}$	A
$\frac{17}{20}$	THE
$1\frac{5}{8}$	NEVER
$\frac{13}{20}$	HAVE
$\frac{1}{2}$	MUSICAL
$1\frac{1}{8}$	BOUGHT
$\frac{13}{14}$	EARS
$\frac{1}{4}$	THOUGHT

$1\frac{3}{8}$	TOOTHPASTE
$1\frac{2}{5}$	WHO
$\frac{1}{6}$	MOTHER
$\frac{2}{3}$	BIG
$\frac{11}{14}$	TEETH
$\frac{13}{30}$	WHEN
$\frac{7}{18}$	KID
$1\frac{1}{2}$	HIS
$\frac{15}{16}$	THAT
$\frac{3}{10}$	SHARP
$\frac{1}{12}$	TUBA
$1\frac{1}{24}$	SHOWS

Knock Knock. Who's There?

1. Amanda. Amanda who? Amanda ...

$8\frac{3}{4}$	$19\frac{2}{5}$	$13\frac{5}{6}$	$8\frac{5}{8}$	$8\frac{3}{16}$	$13\frac{1}{3}$	$14\frac{1}{12}$	$7\frac{13}{16}$	$12\frac{2}{3}$	$6\frac{3}{5}$	$20\frac{3}{10}$	$7\frac{1}{2}$	$18\frac{1}{2}$	$14\frac{3}{4}$	$6\frac{3}{5}$

2. William. William who? William ...

$8\frac{1}{4}$	$14\frac{3}{4}$	$14\frac{3}{4}$	$6\frac{3}{5}$	$19\frac{7}{10}$	$8\frac{1}{4}$	$14\frac{3}{4}$	$85\frac{17}{40}$	$6\frac{3}{5}$	$13\frac{1}{3}$	$12\frac{7}{24}$	$19\frac{2}{5}$	$56\frac{17}{18}$	$85\frac{11}{40}$	$6\frac{3}{5}$

To decode these knock-knock jokes: Do each exercise below and find your answer in the code. Each time the answer appears, write the letter of the exercise above it.

(Y) $3\frac{11}{16} + 4\frac{1}{2}$ = _____

(N) $9\frac{2}{3} + 2\frac{5}{8}$ = _____

(S) $13\frac{4}{5} + 4\frac{7}{10}$ = _____

(U) $5\frac{1}{4} + 8\frac{5}{6}$ = _____

(G) $37\frac{4}{9} + 19\frac{1}{2}$ = _____

(M) $1\frac{11}{12} + 6\frac{1}{3}$ = _____

(X) $4\frac{3}{10} + 9\frac{8}{15}$ = _____

(V) $19\frac{11}{20} + \frac{3}{4}$ = _____

(H) $54\frac{2}{5} + 30\frac{7}{8}$ = _____

(R) $5\frac{1}{4} + 2\frac{9}{16}$ = _____

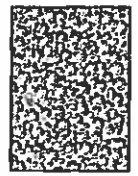
(O) $3\frac{1}{6} + 2\frac{2}{3} + 7\frac{1}{2}$ = _____

(I) $10\frac{1}{5} + 8\frac{1}{2} + \frac{7}{10}$ = _____

(F) $4\frac{3}{8} + 1\frac{1}{6} + 3\frac{5}{24}$ = _____

(E) Juan's model locomotive is $7\frac{5}{8}$ in. long. His coal car is $6\frac{1}{4}$ in. long. When hooked together, there is a $\frac{7}{8}$-inch space between cars. What is the total length when the two cars are hooked together? _____ in.

(T) Every day Ms. Twinkle walks around a park near her house. The park is in the shape of a rectangle 2 mi long and $1\frac{3}{10}$ mi wide. How far does she walk? _____ mi



What Do Mountains Breathe Through?

Do each exercise below. Find your answer in the answer columns and notice the letter next to it. Look for this letter in the string of letters near the bottom of the page and CROSS IT OUT each time it appears. When you finish, write.the remaining letters in the rectangle at the bottom of the page.

① $9\frac{3}{4} - 4\frac{1}{2}$ ② $16\frac{2}{3} - 7\frac{2}{5}$ ③ $8\frac{8}{9} - 5\frac{1}{6}$ ④ $20\frac{13}{16} - 3\frac{1}{4}$ ⑤ $13\frac{5}{6} - 6\frac{1}{3}$

⑥ $51\frac{4}{5} - 8\frac{1}{2}$ ⑦ $25\frac{7}{8} - 12\frac{5}{12}$ ⑧ $37\frac{7}{10} - 28\frac{1}{6}$ ⑨ $67\frac{4}{7} - 17$ ⑩ $4\frac{1}{5} - 4\frac{3}{100}$

⑪ $18\frac{3}{4} - 5\frac{1}{6}$ ⑫ $6\frac{2}{3} - 3\frac{4}{9}$ ⑬ $94\frac{11}{15} - 49\frac{2}{5}$

⑭ When Arnold Schwarzenegger was named Mr. Universe, he had a chest measurement of $56\frac{7}{8}$ inches and a waist measurement of $32\frac{1}{4}$ inches. How much larger was his chest than his waist? _____ in.

⑮ The maximum weight for a basketball is $22\frac{9}{10}$ ounces. For a baseball it is $5\frac{1}{2}$ ounces, and for a tennis ball it is $2\frac{1}{16}$ ounces. How much heavier is a maximum-weight basketball than a maximum-weight baseball? _____ oz

Answers					
	(V) $17\frac{7}{10}$	(Y) $9\frac{8}{15}$	(L) $45\frac{3}{8}$	(U) $13\frac{7}{12}$	(B) $3\frac{13}{18}$
(S) $34\frac{3}{8}$	(G) $5\frac{1}{4}$	(I) $24\frac{5}{8}$	(M) $43\frac{3}{10}$	(N) $3\frac{4}{9}$	(D) $50\frac{4}{7}$
(J) $13\frac{11}{24}$	(F) $3\frac{2}{9}$	(P) $\frac{17}{100}$	(C) $13\frac{1}{3}$	(W) $17\frac{9}{16}$	(O) $\frac{9}{100}$
(T) $17\frac{2}{5}$	(H) $7\frac{1}{2}$	(E) $17\frac{3}{16}$	(Z) $9\frac{4}{15}$	(A) $9\frac{7}{15}$	(R) $45\frac{1}{3}$

P R M V H T O F B I L G D W C U M A Y I N R O T J U S T Z B E R

Answer to puzzle:

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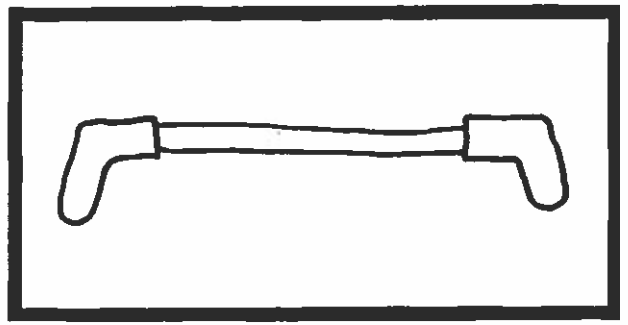
What Is the Title of This Picture?

Do each exercise below and find your answer in the code. Each time the answer appears, write the letter of the exercise above it.



CODED TITLE:

$2\frac{3}{5}$	$64\frac{4}{7}$	$1\frac{2}{5}$	$1\frac{1}{2}$	$4\frac{1}{2}$	$15\frac{3}{10}$	$6\frac{2}{3}$	$3\frac{2}{7}$	$7\frac{4}{5}$	$63\frac{2}{7}$	$11\frac{1}{2}$	$8\frac{7}{12}$	$2\frac{3}{5}$	$3\frac{2}{3}$	$11\frac{7}{8}$	$15\frac{3}{5}$	$8\frac{7}{12}$	$3\frac{2}{3}$
$7\frac{4}{5}$	$64\frac{4}{7}$	$3\frac{4}{7}$	$1\frac{2}{5}$	$7\frac{1}{5}$	$15\frac{3}{5}$	$1\frac{2}{5}$	$37\frac{5}{6}$	$6\frac{3}{4}$	$37\frac{1}{6}$	$7\frac{4}{5}$	$\frac{3}{5}$	$1\frac{4}{5}$	$2\frac{3}{5}$	$7\frac{4}{5}$	$4\frac{1}{3}$	$1\frac{1}{2}$	$2\frac{3}{5}$

(E) $7\frac{1}{4} - 2\frac{3}{4}$

(T) $10\frac{1}{3} - 6\frac{2}{3}$

(R) $8\frac{5}{8} - 1\frac{7}{8}$

(A) $5\frac{1}{5} - 3\frac{4}{5}$

(C) $12\frac{1}{6} - 7\frac{5}{6}$

(H) $9 - 5\frac{5}{7}$

(U) $23 - 14\frac{5}{12}$

(F) $6\frac{3}{10} - 5\frac{7}{10}$

(W) $15\frac{2}{9} - 8\frac{5}{9}$

(J) $40\frac{3}{16} - 28\frac{11}{16}$

(N) $79\frac{2}{7} - 14\frac{5}{7}$

(I) $94\frac{5}{12} - 56\frac{7}{12}$

(O) $8\frac{2}{5} - \frac{3}{5}$

(P) $16\frac{9}{20} - \frac{17}{20}$

(K) Anne is building a fence using nails that are $2\frac{1}{4}$ in. long. She drove one of the nails through a board $\frac{3}{4}$ in. thick into a post 3 in. square. How far did the nail go into the post? _____ in.

(S) Jose decided to walk the $9\frac{3}{10}$ mi from his house to the beach. In the first hour, he walked $3\frac{4}{5}$ mi. In the second hour, he walked $2\frac{9}{10}$ mi. How much farther did he have to go? _____ mi

Where Do Trees Go When One Tree Has a Birthday?

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 $8\frac{1}{4} - 5\frac{1}{2}$

② $9\frac{1}{3} - 4\frac{5}{6}$

③ $6\frac{3}{10} - 2\frac{1}{2}$

④ $7\frac{1}{5} - 3\frac{3}{4}$

⑤ $12\frac{4}{9} - 1\frac{2}{3}$

⑥ $30\frac{1}{4} - 8\frac{7}{12}$

⑦ $18\frac{1}{3} - 3\frac{4}{5}$

⑧ $9\frac{2}{9} - 8\frac{1}{2}$

⑨ $5\frac{1}{4} - \frac{7}{10}$

⑩ $27\frac{2}{3} - 6\frac{7}{8}$

⑪ $44\frac{11}{15} - 38\frac{2}{5}$

⑫ $15\frac{1}{6} - \frac{3}{10}$

⑬ Les Anderson set a record when he caught a salmon that weighed $97\frac{1}{4}$ lb. Robert Wilson caught a salmon that weighed $74\frac{9}{16}$ lb. How much less than the record was this? _____ lb

⑭ A cabinet has shelves that are $11\frac{1}{2}$ in. apart. On one shelf, Mike stacked a VCR that is $5\frac{1}{4}$ in. high on top of an amplifier that is $3\frac{3}{8}$ in. high. How much space is left above the VCR? _____ in.

TH $3\frac{9}{20}$	IN $22\frac{11}{16}$	TO $20\frac{11}{24}$	ES $2\frac{3}{4}$	TR $20\frac{19}{24}$	IT $22\frac{3}{16}$	EE $\frac{13}{18}$	SL $10\frac{5}{9}$	OW $2\frac{7}{8}$	DR $4\frac{1}{2}$	UM $2\frac{1}{4}$
TO $14\frac{13}{15}$	BE $6\frac{3}{5}$	AM $14\frac{8}{15}$	UP $3\frac{4}{5}$	RP $\frac{7}{18}$	ST $10\frac{7}{9}$	AR $14\frac{4}{15}$	KS $6\frac{1}{3}$	CA $21\frac{2}{3}$	TY $4\frac{7}{20}$	KE $4\frac{11}{20}$

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Why Does a Mermaid Wear Goggles?

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

(S) $\frac{1}{4} + \frac{3}{4}$

(T) $2\frac{1}{4} + 5\frac{3}{4}$

(A) $4\frac{5}{8} + \frac{3}{8}$

(H) $3\frac{2}{5} + 7\frac{3}{5}$

(O) $8\frac{7}{12} + 5\frac{5}{12}$

(T) $6 + 2\frac{2}{3}$

(S) $10 + 3\frac{5}{6}$

(H) $4\frac{7}{16} + 9$

(N) $5\frac{2}{3} + 5\frac{1}{3} + 3\frac{1}{2}$

(E) $2\frac{3}{10} + 6\frac{1}{4} + 7\frac{7}{10}$

(I) $9\frac{1}{6} + 1\frac{5}{8} + 4\frac{5}{6}$

(A) $\frac{3}{4} + 3\frac{11}{15} + 8\frac{4}{15}$

(E) $\frac{3}{8} + \frac{3}{8} + \frac{3}{8}$

(L) $\frac{3}{5} + \frac{3}{5} + 4$

(C) $\frac{4}{9} + \frac{7}{9} + 7$

(V) $\frac{1}{16} + \frac{3}{16} + \frac{5}{16} + \frac{7}{16}$

$13\frac{5}{6}$	14	10	8	$13\frac{7}{16}$	5	$8\frac{2}{3}$	$13\frac{9}{16}$	1	11

$1\frac{1}{8}$	$5\frac{3}{5}$	$8\frac{2}{9}$	$12\frac{3}{4}$	$14\frac{1}{2}$	$8\frac{5}{9}$	$5\frac{1}{5}$	$15\frac{5}{8}$	1	$16\frac{1}{4}$

(E) $7 - \frac{1}{2}$

(T) $2 - \frac{1}{3}$

(C) $10 - \frac{1}{8}$

(I) $13 - \frac{1}{5}$

(E) $6 - \frac{2}{3}$

(H) $5 - \frac{3}{4}$

(N) $8 - \frac{5}{8}$

(O) $1 - \frac{9}{16}$

(A) $9 - \frac{2}{5}$

(E) $9 - \frac{5}{6}$

(A) $7 - 6\frac{1}{2}$

(D) $7 - 6\frac{4}{9}$

(N) $4 - \frac{7}{10}$

(A) $4 - \frac{5}{16}$

(N) $4\frac{1}{3} - \frac{2}{3}$

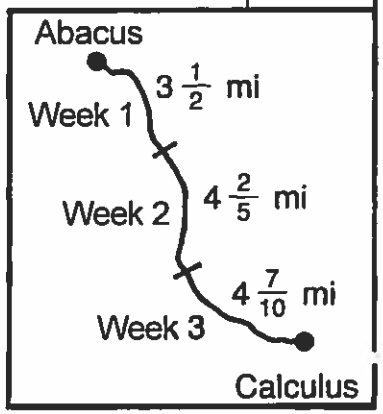
(S) $4\frac{3}{8} - \frac{7}{8}$

$12\frac{4}{5}$	$7\frac{3}{8}$	$12\frac{2}{5}$	$1\frac{2}{3}$	$4\frac{1}{4}$	$6\frac{1}{2}$	$7\frac{7}{8}$	$\frac{7}{16}$	$9\frac{7}{8}$	$5\frac{1}{3}$

$\frac{1}{2}$	$3\frac{3}{10}$	$\frac{7}{9}$	$8\frac{3}{5}$	$3\frac{2}{3}$	$\frac{5}{9}$	$3\frac{7}{16}$	$3\frac{1}{2}$	$8\frac{1}{6}$	$3\frac{11}{16}$

How Do You Describe a Guy Who Has Jokes Written All Over One Leg?

Do each exercise and find your answer at the bottom of the page. Cross out the letter above each correct answer. When you finish, the answer to the title question will remain.



1. It took 3 weeks to build a road between the towns of Abacus and Calculus, as shown in the diagram.

A. How many more miles of road were built during week 3 than during week 1? _____ mi

B. What is the total length of the new road? _____ mi

2. Meg has $5\frac{3}{4}$ yd of fabric. She needs $1\frac{1}{8}$ yd to make a vest and $2\frac{1}{2}$ yd to make a skirt. How much fabric will be left for a jacket? _____ yd

3. The road to Rustic Canyon Camp is $9\frac{1}{5}$ mi long. The distance by boat is $3\frac{3}{4}$ mi. How much less is the distance by boat? _____ mi

4. Station KROQ played three songs in a row. The first song lasted $3\frac{1}{6}$ min, the second $2\frac{3}{4}$ min, and the third $3\frac{2}{3}$ min. How long did it take to play all three songs? _____ min

5. Lisa's desk is $46\frac{1}{2}$ in. wide. Her bookcase is 30 in. wide. If she puts both of them against a wall that is 98 in. wide, how much space will be left for a file cabinet? _____ in.

6. Stock prices for three companies are given in the table. Prices are given in eighths of a dollar.

Stock	Open	High	Low	Close
Tech Computer	$33\frac{1}{2}$	$39\frac{6}{8}$	$32\frac{1}{8}$	35
ROM Bus Line	$67\frac{7}{8}$	$71\frac{5}{8}$	63	$63\frac{4}{8}$
Air Chance	$15\frac{1}{4}$	$18\frac{1}{2}$	$14\frac{3}{8}$	18

A. What was the difference between the high and low prices of Tech Computer? $_____

B. What was the difference between the opening and closing prices of ROM Bus Line? $_____

C. Max Mix bought one share of each stock at its opening price. How much did he pay? $_____

D. Hugh Mann bought 100 shares of Air Chance at the opening price and sold them at the closing price. How much profit did he make on each share? $_____

I	F	A	T	U	P	E	N	K	I	N	O	W	E	D	E	R
$4\frac{3}{8}$	$2\frac{5}{8}$	$5\frac{9}{20}$	$1\frac{1}{5}$	$18\frac{1}{2}$	$2\frac{3}{4}$	$7\frac{5}{8}$	$4\frac{1}{8}$	$117\frac{1}{8}$	$9\frac{7}{12}$	$7\frac{1}{4}$	$116\frac{5}{8}$	$2\frac{1}{8}$	$5\frac{13}{20}$	$21\frac{1}{2}$	$9\frac{11}{12}$	$12\frac{3}{5}$

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