

Why Does Cirilla Say That She Used to be Twins?

Do the exercises mentally. Write the letter of each exercise in the box under its answer.

1 yd = 36 in. 1 qt = 32 oz
 1 lb = 16 oz 1 hr = 60 min

- I**
- (R) $\frac{1}{2} \times 26$
 - (S) $\frac{1}{2} \times 40$
 - (M) $\frac{1}{3} \times 21$
 - (I) $\frac{1}{3} \times 75$
 - (H) $\frac{1}{4} \times 12$
 - (T) $\frac{1}{4} \times 36$
 - (C) $\frac{3}{4} \times 36$
 - (E) $\frac{3}{4} \times 80$
 - (H) $33 \times \frac{1}{3}$
 - (A) $33 \times \frac{2}{3}$

- II**
- (O) $\frac{1}{5} \times 40$
 - (A) $\frac{2}{5} \times 40$
 - (P) $\frac{3}{5} \times 40$
 - (T) $\frac{4}{5} \times 40$
 - (E) $32 \times \frac{1}{8}$
 - (H) $40 \times \frac{3}{8}$
 - (R) $72 \times \frac{5}{8}$
 - (E) $\frac{2}{9} \times 54$
 - (R) $50 \times \frac{1}{10}$
 - (U) $120 \times \frac{3}{10}$

- III**
- (S) $\frac{3}{4}$ of 32
 - (H) $\frac{5}{7}$ of 21
 - (E) $\frac{4}{9}$ of 63
 - (O) $\frac{1}{12}$ of 36
 - (A) $\frac{7}{10}$ of 50
 - (E) $\frac{9}{10}$ of 10
 - (S) $\frac{6}{11}$ of 66
 - (W) $\frac{3}{5}$ of 55
 - (H) $\frac{2}{15}$ of 60
 - (O) $\frac{1}{6}$ of 540

- IV**
- (R) $\frac{1}{3}$ of a yd = _____ in.
 - (F) $\frac{1}{4}$ of a lb = _____ oz
 - (E) $\frac{1}{2}$ of a qt = _____ oz
 - (T) $\frac{2}{3}$ of an hr = _____ min
 - (H) $\frac{3}{4}$ of a yd = _____ in.
 - (W) $\frac{7}{8}$ of a lb = _____ oz
 - (N) $\frac{5}{8}$ of a qt = _____ oz
 - (W) $\frac{5}{6}$ of an hr = _____ min

Answers for Columns I and II:

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 3 | 4 | 5 | 6 | 7 | 8 | 9 | 11 | 12 | 13 | 14 | 15 | 16 | 20 | 21 | 22 | 23 | 24 | 25 | 27 | 32 | 36 | 45 | 60 |
| | | | | | | | | | | | | | | | | | | | | | | | |

Answers for Columns III and IV:

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 2 | 3 | 4 | 7 | 8 | 9 | 12 | 13 | 14 | 15 | 16 | 20 | 23 | 24 | 27 | 28 | 31 | 33 | 35 | 36 | 37 | 40 | 50 | 90 |
| | | | | | | | | | | | | | | | | | | | | | | | |

Why Did the Math Book Go On a Diet?

Estimate each product using a compatible number. Find your answer in the Code Key and notice the letter next to it. Write this letter in the box containing the number of the exercise.

① $\frac{1}{3} \times 11$

② $\frac{1}{3}$ of 25

③ $\frac{1}{5}$ of 36

④ $\frac{1}{5} \times 48$

⑤ $\frac{1}{7}$ of 15

⑥ $\frac{1}{4} \times 19.5$

⑦ $\frac{1}{6}$ of 52

⑧ $\frac{1}{10}$ of 303

⑨ $\frac{1}{9} \times 25.8$

⑩ $\frac{1}{8}$ of 66.7

⑪ $\frac{1}{2}$ of 13.9

⑫ $\frac{1}{12}$ of 62.5

⑬ $\frac{1}{5}$ of 99.2

⑭ $\frac{1}{9} \times 16.5$

⑮ $\frac{1}{7}$ of 30

⑯ $\frac{1}{8}$ of 82.1

⑰ $\frac{1}{20} \times 23.5$

⑱ $\frac{1}{11} \times 64$

⑲ $\frac{1}{3}$ of 60.3

⑳ $\frac{1}{10}$ of 77.5

⑳ Mortimer has read about $\frac{1}{6}$ of a 298-page novel. Estimate the number of pages he has read. _____

㉑ The clothes at Trendy Togs are on sale at $\frac{1}{4}$ off the regular price. About how much would you save on a suit with a regular price of \$119.50? \$ _____

| CODE KEY | |
|----------|---|
| about 1 | H |
| about 2 | I |
| about 3 | U |
| about 4 | O |
| about 5 | E |
| about 6 | N |
| about 7 | A |
| about 8 | T |
| about 9 | S |
| about 10 | R |
| about 12 | P |
| about 20 | C |
| about 30 | D |
| about 40 | L |
| about 50 | F |

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



Did All the Animals Go onto Noah's Ark in Pairs?



Estimate each product using a compatible number. Under each exercise, circle the letter of the better choice. Write this letter in the box containing the number of the exercise.

① $\frac{1}{3} \times 17$

V about 4

E about 6

② $\frac{1}{4} \times 29$

O about 7

C about 6

③ $\frac{1}{5} \times 98$

K about 22

A about 20

④ $\frac{2}{3} \times 28$

T about 19

R about 16

⑤ $\frac{3}{4}$ of 45

I about 34

B about 30

⑥ $\frac{1}{7}$ of 706

F about 90

S about 100

⑦ $\frac{3}{5}$ of 19

R about 14

E about 11

⑧ $\frac{1}{8}$ of 159

G about 30

P about 20

⑨ $\frac{7}{10} \times 77$

M about 54

A about 60

⑩ $\frac{2}{3} \times 154$

T about 100

H about 90

⑪ $\frac{1}{4}$ of 270

Y about 80

H about 70

⑫ $\frac{1}{12}$ of 365

S about 30

P about 25

⑬ $\frac{1}{6}$ of \$31.50

E about \$5.00

D about \$4.00

⑭ $\frac{2}{9}$ of \$87.75

N about \$20.00

F about \$30.00

⑮ $\frac{3}{10}$ of \$297.95

M about \$80.00

W about \$90.00

⑯ $\frac{1}{4}$ of 25

P greater than 6

R less than 6

⑰ $\frac{5}{8} \times 47$

S greater than 30

N less than 30

⑱ $\frac{2}{5}$ of \$148.25

B more than \$60.00

W less than \$60.00

⑲ About $\frac{1}{3}$ of the 238 students at Adams Junior High walk to school. Estimate the number who walk.

L about 80 G about 90

⑳ About $\frac{9}{10}$ of the 387 students at Lincoln School like math. Estimate the number who like math.

D about 300 R about 360

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

What Did the Cowboy Artist Like to Do?

Write each answer, then mark it in the answer columns. For each set of exercises, there is one extra answer. Write the letter of this answer in the corresponding box at the right.

| | | | | | | | | | |
|---|---|---|---|---|---|---|----|---|---|
| 4 | 9 | 6 | 2 | 7 | 1 | 5 | 10 | 3 | 8 |
|---|---|---|---|---|---|---|----|---|---|

| | | | |
|---|---|----|---|
| 1 | $\frac{1}{2} \times \frac{1}{4}$ $\frac{2}{5} \times \frac{1}{3}$ $\frac{3}{8} \times \frac{3}{5}$ Answers (L) $\frac{2}{15}$ (I) $\frac{9}{28}$ (B) $\frac{1}{8}$ (P) $\frac{15}{28}$ | 6 | $\frac{1}{3} \times 5$ $\frac{5}{8} \times 8$ $\frac{1}{4} \times 6$ Answers (T) $1\frac{1}{2}$ (I) $1\frac{2}{3}$ (A) $1\frac{1}{8}$ (S) $1\frac{3}{5}$ |
| 2 | $\frac{3}{10} \times \frac{1}{2}$ $\frac{5}{8} \times \frac{1}{6}$ $\frac{2}{3} \times \frac{3}{4}$ Answers (E) $\frac{1}{2}$ (A) $\frac{3}{20}$ (K) $\frac{5}{48}$ (W) $\frac{3}{8}$ | 7 | $\frac{2}{5} \times 11$ $\frac{7}{8}$ of 2 $4 \times \frac{5}{7}$ Answers (N) $2\frac{6}{7}$ (H) $2\frac{1}{2}$ (F) $4\frac{2}{5}$ (M) $1\frac{3}{4}$ |
| 3 | $\frac{5}{6} \times \frac{4}{5}$ $\frac{3}{8} \times \frac{1}{3}$ $\frac{1}{10} \times \frac{8}{8}$ Answers (V) $\frac{2}{3}$ (T) $\frac{9}{16}$ (U) $\frac{5}{8}$ (M) $\frac{1}{8}$ | 8 | $\frac{3}{100}$ of 5 $\frac{6}{8}$ of $\frac{10}{10}$ $\frac{3}{8} \times \frac{8}{3}$ Answers (S) $\frac{3}{20}$ (P) $\frac{7}{12}$ (L) 1 (N) $\frac{1}{2}$ |
| 4 | $\frac{1}{2}$ of $\frac{1}{2}$ $\frac{3}{5}$ of $\frac{1}{4}$ $\frac{2}{3}$ of $\frac{5}{12}$ Answers (D) $\frac{1}{6}$ (L) $\frac{5}{18}$ (F) $\frac{3}{20}$ (H) $\frac{1}{4}$ | 9 | $\frac{1}{2} \times \frac{1}{3} \times \frac{1}{4}$ $\frac{2}{3} \times \frac{1}{4} \times \frac{3}{3}$ $\frac{3}{3} \times \frac{1}{2} \times \frac{8}{8}$ Answers (W) $\frac{1}{9}$ (E) $\frac{1}{6}$ (R) $\frac{5}{12}$ (I) $\frac{1}{24}$ |
| 5 | Jay found $\frac{1}{3}$ of a sheet cake in the kitchen. He ate $\frac{1}{2}$ of it. What fraction of the whole cake did he eat? _____ (C) $\frac{1}{10}$ The distance around a track is $\frac{1}{4}$ mile. Diana ran $\frac{2}{5}$ of the distance. How far did she run? _____ mi (S) $\frac{1}{8}$ (N) $\frac{1}{6}$ | 10 | The width of a photograph is $\frac{7}{10}$ of the length. The length is 5 inches. What is the width? _____ in. (G) $3\frac{1}{4}$ A recipe for 4 dozen cookies calls for $\frac{3}{4}$ cup of sugar. How much sugar is needed to make 2 dozen cookies? _____ c (T) $3\frac{1}{2}$ (K) $\frac{3}{8}$ |

Moving Words

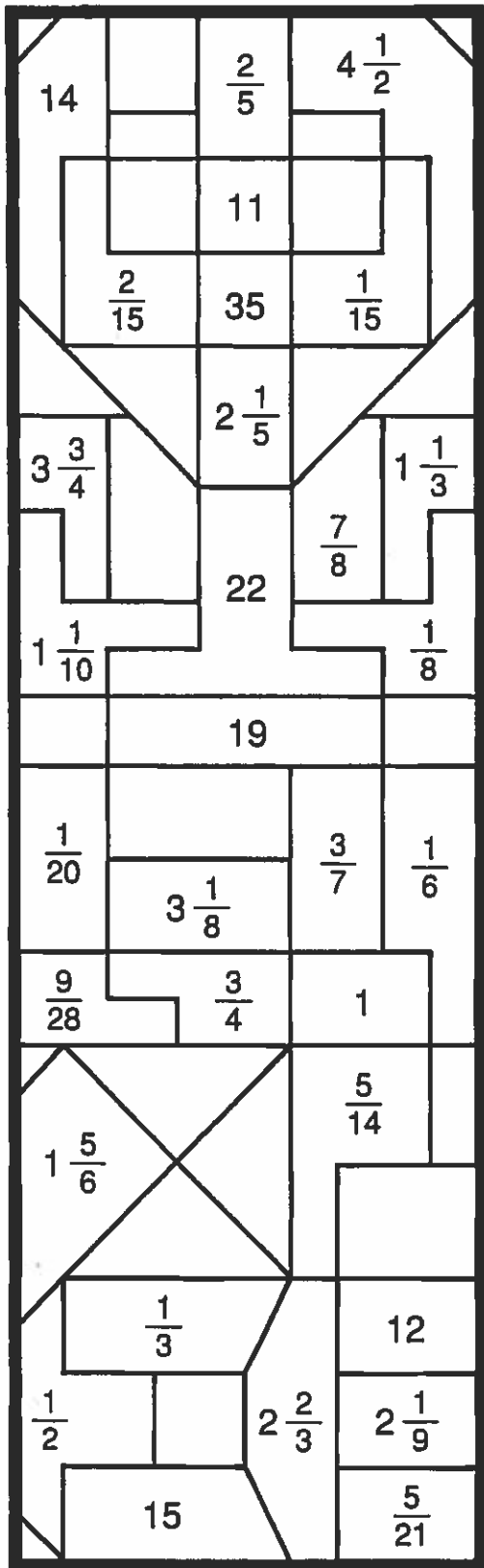
Do each exercise in the top block and find your answer in the bottom block. Transfer the word from the top box to the corresponding bottom box. Keep working and you will get a timely question.

| | | | | | | |
|---|---|---|---|--|--|---|
| ① $\frac{2}{5} \times \frac{1}{4}$ KNOW | ② $\frac{3}{7} \times \frac{1}{6}$ STREET | ③ $\frac{7}{8} \times \frac{2}{3}$ SOMETIMES | ④ $\frac{3}{5} \times \frac{15}{16}$ THE | ⑤ $\frac{4}{15} \times \frac{5}{8}$ THIRD | ⑥ $\frac{3}{10} \times \frac{5}{6}$ DO | ⑦ $\frac{2}{3} \times \frac{9}{20}$ IS |
| ⑧ $\frac{4}{5} \times \frac{1}{6}$ THAT | ⑨ $\frac{8}{9} \times \frac{1}{12}$ STREET | ⑩ $\frac{3}{8} \times \frac{8}{15}$ AND | ⑪ $\frac{5}{12} \times \frac{9}{10}$ WHY | ⑫ $\frac{2}{3} \times \frac{2}{9}$ RUNS | ⑬ $\frac{4}{7} \times \frac{7}{10}$ CALLED | ⑭ $\frac{9}{50} \times \frac{5}{24}$ SIXTY |
| ⑮ $\frac{10}{3} \times \frac{2}{5}$ STREET | ⑯ $\frac{12}{5} \times \frac{5}{8}$ YOU | ⑰ $\frac{20}{7} \times \frac{14}{15}$ SIXTY | ⑱ $\frac{10}{9} \times \frac{27}{4}$ BETWEEN | ⑲ $\frac{20}{33} \times \frac{11}{30}$ STREET | ⑳ $\frac{2}{15} \times \frac{100}{3}$ FIRST | ㉑ $\frac{8}{9} \times \frac{15}{6}$ MINUTE |

| | | | | | | |
|----------------|----------------|----------------|----------------|----------------|----------------|------------------|
| $\frac{1}{4}$ | $1\frac{1}{2}$ | $\frac{1}{10}$ | $\frac{3}{8}$ | $\frac{9}{16}$ | $1\frac{1}{3}$ | $\frac{2}{15}$ |
| $\frac{4}{27}$ | $7\frac{1}{2}$ | $\frac{3}{80}$ | $4\frac{4}{9}$ | $\frac{1}{14}$ | $\frac{1}{5}$ | $2\frac{2}{3}$ |
| $\frac{1}{6}$ | $\frac{2}{9}$ | $\frac{3}{10}$ | $\frac{7}{12}$ | $\frac{2}{5}$ | $2\frac{2}{9}$ | $\frac{2}{27}$? |

What Has a Bottom at the Top?

Do the exercises below and find your answers in the rectangle. Shade in each area containing a correct answer. You will get to the bottom of this mystery!



① $\frac{2}{3} \times \frac{1}{10}$ ② $\frac{5}{9} \times \frac{3}{5}$ ③ $\frac{8}{3} \times \frac{1}{2}$

④ $\frac{1}{6} \times \frac{10}{7}$ ⑤ $\frac{9}{5} \times \frac{5}{12}$ ⑥ $\frac{6}{5} \times \frac{15}{4}$

⑦ $\frac{9}{10} \times \frac{25}{6}$ ⑧ $\frac{5}{8}$ of 24 ⑨ $\frac{7}{4} \times 20$

⑩ $\frac{12}{35} \times \frac{15}{16}$ ⑪ $\frac{8}{7} \times \frac{21}{2}$ ⑫ $\frac{3}{10} \times \frac{5}{12}$

⑬ $\frac{1}{2} \times \frac{4}{9} \times \frac{3}{5}$ ⑭ $\frac{6}{7} \times \frac{5}{6} \times \frac{7}{10}$

⑮ $\frac{8}{15} \times \frac{9}{4} \times \frac{11}{12}$ ⑯ $\frac{7}{6} \times \frac{2}{5} \times 30$

⑰ $\frac{4}{9} \times 16 \times \frac{3}{8}$ ⑱ $\frac{3}{4} \times \frac{4}{3} \times \frac{5}{5}$

⑲ The King's ship sank with 8 gold bars aboard. The King paid Captain Nemo $\frac{4}{5}$ of one bar for finding the gold. The Captain gave $\frac{1}{2}$ of his gold to charity. What fraction of a bar went to charity? _____

⑳ There are 40 students at Bali High who play stringed instruments. Of these, $\frac{1}{4}$ play viola, $\frac{1}{5}$ play cello, and the rest play violin. How many students play violin? _____

㉑ Yikes McTugg bought $\frac{1}{2}$ pound of potato salad. He ate $\frac{2}{3}$ of it for lunch. How much potato salad was left for an afternoon snack? _____ lb

What Is the Friendliest Kind of Airplane?

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 Bill made 5 gallons of fruit punch. If $\frac{1}{4}$ of the punch was cranberry juice, how much cranberry juice did he use? _____ gal
- ② A high-speed computer printer prints a page in $\frac{1}{6}$ second. Using this printer, how long would it take to print 30 pages? _____ s
- ③ A recipe for pancakes calls for 1 cup of pancake mix and $\frac{3}{4}$ cup of milk. How much milk is needed to make $\frac{1}{2}$ the recipe? _____ c
- ④ The students at Mix Middle School painted a mural 25 feet long. The height was $\frac{3}{10}$ of the length. How high was the mural? _____ ft
- ⑤ The Avocados own a $\frac{1}{4}$ -acre orchard. Two fifths of the orchard is planted in orange trees. What fraction of an acre is planted in orange trees? _____
- ⑥ A bottle of root beer contains $\frac{4}{5}$ of a liter. How much root beer is in 3 bottles? _____ L
- ⑦ In Mr. Prime's class, $\frac{9}{10}$ of the students had done their homework. Of these, $\frac{2}{3}$ had all correct answers. What fraction of the whole class had all correct answers? _____
- ⑧ 14-karat gold is $\frac{7}{12}$ pure gold and $\frac{5}{12}$ other metals. How much pure gold is in 4 ounces of 14-karat gold? _____ oz
- ⑨ A lemon pie was cut into 6 equal pieces. Being on a diet, Matilda ate only half a piece. What fraction of the whole pie did she eat? _____
- ⑩ Rachel has a collection of 40 stuffed animals. Of the animals, $\frac{3}{8}$ are bears and $\frac{1}{5}$ are dogs. The rest are other animals. How many other animals does she have? _____

| | | | | | | | |
|----------------------|----------------------|----------|----------------------|----------------------|----------------------|----------------------|----------------------|
| IT $\frac{1}{10}$ | AH $2\frac{1}{2}$ | OT 17 | EL $\frac{1}{9}$ | AD $7\frac{1}{2}$ | IN $1\frac{1}{4}$ | LO 14 | VE $\frac{1}{12}$ |
| FL $\frac{3}{5}$ | CO $\frac{1}{2}$ | ME 5 | YU $2\frac{1}{3}$ | PT 10 | OP $\frac{3}{8}$ | OV $2\frac{2}{5}$ | ER $8\frac{1}{5}$ |

| | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

DAFFYNITION DECODER

1. Thousand dollar bill: $\frac{13}{100} \frac{57}{75} \frac{15}{880} \frac{54}{152} \frac{100}{100} \frac{55}{55}$

$\frac{140}{140} \frac{58}{58} \frac{13}{13} \frac{140}{140} \frac{55}{55} \frac{295}{295} \frac{96}{96} \frac{18}{18} \frac{140}{140} \frac{61}{61} \frac{300}{300} \frac{44}{44} \frac{235}{235} \frac{730}{730}$

2. Daffodil: $\frac{100}{100} \frac{310}{310} \frac{26}{26} \frac{880}{880} \frac{880}{880} \frac{54}{54} \frac{39}{39} \frac{825}{825} \frac{13}{13} \frac{96}{96} \frac{235}{235} \frac{730}{730} \frac{42}{42} \frac{140}{140}$

TO DECODE THESE TWO DAFFYNITIONS:

Fill in each blank and then add to complete each exercise. Find the circled answer in the code. Each time the answer appears, write the letter of the exercise above it.

(V) $1\frac{1}{2} \times 12 = \underline{12} + \underline{6} = \bigcirc$

(N) $5\frac{1}{2} \times 10 = \underline{50} + \underline{\quad} = \bigcirc$

(G) $4\frac{1}{3} \times 6 = \underline{\quad} + \underline{\quad} = \bigcirc$

(A) $3\frac{1}{3} \times 30 = \underline{\quad} + \underline{\quad} = \bigcirc$

(U) $2\frac{1}{5} \times 20 = \underline{\quad} + \underline{\quad} = \bigcirc$

(X) $7\frac{1}{4} \times 8 = \underline{\quad} + \underline{\quad} = \bigcirc$

(F) $1\frac{1}{8} \times 48 = \underline{\quad} + \underline{\quad} = \bigcirc$

(L) $4\frac{2}{3} \times 9 = \underline{\quad} + \underline{\quad} = \bigcirc$

(T) $3\frac{3}{4} \times 20 = \underline{\quad} + \underline{\quad} = \bigcirc$

(I) $6\frac{2}{5} \times 15 = \underline{\quad} + \underline{\quad} = \bigcirc$

(Y) $5\frac{4}{7} \times 7 = \underline{\quad} + \underline{\quad} = \bigcirc$

(R) $2\frac{3}{8} \times 24 = \underline{\quad} + \underline{\quad} = \bigcirc$

(C) $4\frac{7}{10} \times 50 = \underline{\quad} + \underline{\quad} = \bigcirc$

(S) $9\frac{5}{6} \times 30 = \underline{\quad} + \underline{\quad} = \bigcirc$

(O) $2\frac{1}{5} \times 400 = \underline{\quad} + \underline{\quad} = \bigcirc$

(D) $1\frac{2}{3} \times 180 = \underline{\quad} + \underline{\quad} = \bigcirc$

(E) There are 60 minutes in one hour. How many minutes are there in $2\frac{1}{3}$ hours?

(K) There are 100 centimeters in one meter. How many centimeters are there in $7\frac{3}{10}$ meters?

(P) Amos baked $2\frac{3}{4}$ dozen chocolate chip cookies. Then he ate $1\frac{2}{3}$ dozen. How many cookies were left?



Why Did Mr. Wurksemhard Nickname One of His Students "Mississippi"?

§
§
§

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

§
§
§

A. Choose the better estimate.

① $3\frac{1}{5} \times 7\frac{7}{8}$

V about 18
E about 25

② $8\frac{2}{3} \times 5\frac{1}{7}$

A about 45
L about 38

③ $2\frac{1}{4} \times 11\frac{7}{9}$

R about 36
U about 26

④ $6\frac{1}{3} \times 7$

K about 37
H about 44

⑤ $9\frac{2}{5} \times 2\frac{1}{6}$

T about 20
G about 15

⑥ $1\frac{1}{8} \times 20\frac{3}{10}$

R about 35
O about 23

⑦ $6\frac{3}{16} \times 4\frac{2}{7}$

I about 26
N about 22

⑧ $3\frac{4}{5} \times 5\frac{8}{9}$

S about 22
P about 27

⑨ $2\frac{7}{10} \times 14\frac{5}{6}$

Y about 55
E about 40

⑩ $4\frac{3}{8} \times 4\frac{5}{8}$

O about 28
A about 20

⑪ $9\frac{5}{7} \times 7\frac{1}{4}$

R about 63
W about 70

⑫ $1\frac{1}{2} \times 19\frac{11}{12}$

T about 30
N about 50

B. Estimate. Choose > or < for each .

⑬ $3\frac{1}{3} \times 3\frac{1}{5} \square 9$

S > D <

⑭ $5\frac{1}{8} \times 12\frac{2}{9} \square 60$

H > I <

⑮ $8\frac{9}{10} \times 4\frac{3}{4} \square 45$

O > E <

⑯ $6\frac{6}{7} \times 10\frac{7}{12} \square 77$

R > W <

⑰ $2\frac{1}{5} \times 25\frac{1}{2} \square 50$

H > S <

⑱ $7\frac{7}{8} \times 50 \square 400$

N > T <

C. Solve.

⑲ Amir is $8\frac{4}{5}$ times as tall as he appears in a photograph. He is $7\frac{1}{8}$ in. tall in the photograph. Estimate Amir's actual height.

B about 56 in. M about 63 in.

⑳ On a map, 1 inch represents $12\frac{1}{2}$ miles. If two towns are $3\frac{7}{8}$ in. apart on the map, estimate the actual distance between them.

L about 60 mi D about 50 mi

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

Why Doesn't Orgo Eat Cabbage, Corn, Chicken, Clams, Cake, or Celery?

Write the letter of each correct answer in the box containing the number of the exercise. If the answer has a ●, shade in the box instead of writing a letter.

I. Write each mixed number as an improper fraction.

- (1) $2\frac{3}{5}$ (2) $5\frac{1}{8}$ (3) $3\frac{5}{7}$ (4) $8\frac{3}{4}$ (5) $4\frac{7}{10}$
 (6) $3\frac{5}{12}$ (7) $7\frac{1}{6}$ (8) $1\frac{17}{20}$ (9) $6\frac{7}{8}$ (10) $9\frac{1}{4}$

Answers 1 – 10

| | | | | | | |
|--------------------|---------------------|--------------------|---------------------|---------------------|--------------------|---------------------|
| (O) $\frac{26}{7}$ | (L) $\frac{47}{12}$ | ● $\frac{55}{8}$ | (T) $\frac{47}{10}$ | (O) $\frac{37}{20}$ | (E) $\frac{41}{8}$ | ● $\frac{31}{4}$ |
| (I) $\frac{37}{4}$ | (E) $\frac{43}{6}$ | (N) $\frac{13}{5}$ | (G) $\frac{47}{8}$ | ● $\frac{35}{4}$ | (V) $\frac{49}{6}$ | (H) $\frac{41}{12}$ |

II. Multiply.

- (11) $2\frac{1}{2} \times 1\frac{2}{5}$ (12) $2\frac{1}{4} \times 3\frac{2}{3}$ (13) $1\frac{7}{8} \times 1\frac{1}{3}$
 (14) $1\frac{3}{5} \times 4\frac{1}{6}$ (15) $1\frac{3}{4} \times 6$ (16) $2\frac{3}{10} \times 4$
 (17) $8\frac{1}{3} \times \frac{4}{15}$ (18) $7\frac{1}{2} \times 2\frac{4}{5}$ (19) $4\frac{1}{12} \times 1\frac{1}{7}$
 (20) $3\frac{1}{8} \times 1\frac{3}{5} \times 2\frac{1}{2}$ (21) $2\frac{2}{3} \times \frac{7}{10} \times 6$

Answers 11 – 21

| | | | | | | |
|--------------------|---------------------|--------------------|---------------------|---------------------|--------------------|---------------------|
| (T) $4\frac{5}{6}$ | ● $8\frac{1}{4}$ | (S) 21 | (K) $10\frac{1}{2}$ | (E) $3\frac{1}{2}$ | (N) $9\frac{3}{8}$ | (L) $12\frac{1}{2}$ |
| (D) $2\frac{2}{9}$ | (C) $11\frac{1}{5}$ | (O) $2\frac{1}{2}$ | ● $9\frac{1}{5}$ | (I) $11\frac{3}{4}$ | (F) $4\frac{2}{3}$ | (D) $6\frac{2}{3}$ |

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

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.

| |
|------------------------|
| $5\frac{5}{6}$ BECAUSE |
| 45 TOYS |
| 10 HIS |
| $20\frac{1}{2}$ HIM |
| $4\frac{2}{3}$ THE |
| $5\frac{1}{3}$ BIG |
| 36 NEVER |
| $10\frac{3}{4}$ THAT |
| $2\frac{1}{4}$ BUY |
| $4\frac{7}{12}$ NEW |
| $7\frac{1}{3}$ TOLD |
| $5\frac{5}{12}$ WORN |

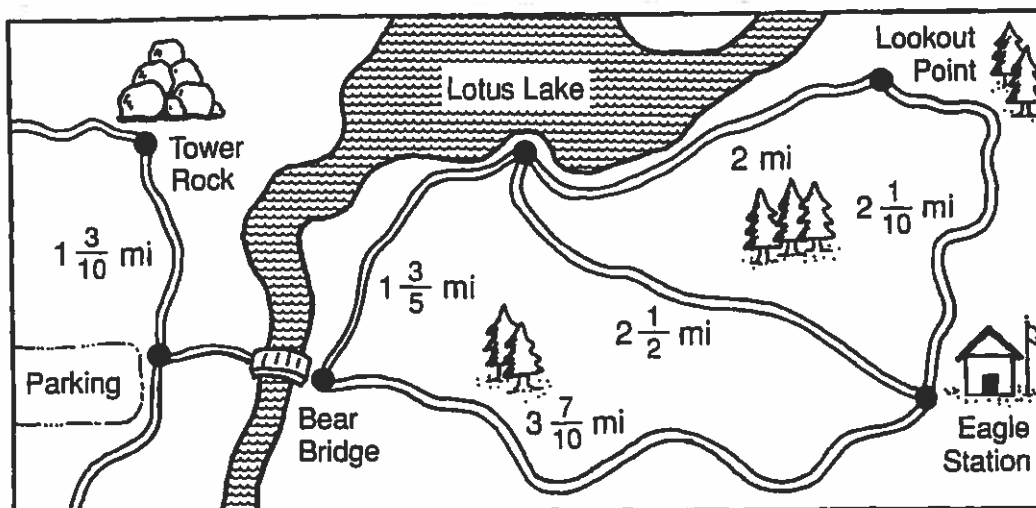
- A $2\frac{2}{3} \times 1\frac{3}{4}$ B $1\frac{7}{8} \times 2\frac{2}{5}$ C $3\frac{1}{2} \times 3\frac{1}{2}$
 D $5\frac{1}{3} \times 1\frac{3}{8}$ E $4\frac{4}{5} \times 2\frac{1}{12}$ F $3\frac{1}{7} \times 1\frac{1}{6}$
 G $1\frac{3}{10} \times 6$ H $2\frac{3}{4} \times 18$ I $2\frac{7}{10} \times \frac{5}{6}$
 J $4\frac{1}{2} \times 4\frac{5}{9}$ K $3\frac{2}{3} \times 1\frac{1}{4}$ L $5\frac{5}{8} \times 9\frac{3}{5}$
 M $7\frac{1}{2} \times 1\frac{1}{3} \times \frac{7}{12}$ N $4\frac{9}{10} \times \frac{4}{7} \times 20$

- O In an endurance race, Philip ran for $3\frac{3}{4}$ hours at an average speed of $9\frac{3}{5}$ miles per hour. How far did he run? _____ mi
 P A box of 100 nails weighs $1\frac{5}{8}$ pounds. Mark used $3\frac{1}{3}$ boxes of nails to build a 2-story treehouse. How many pounds of nails did he use? _____ lb
 Q There are 3 starfighters and 10 aliens in the play "Space Trek." Each alien costume takes $2\frac{1}{4}$ yards of material. How much material is needed for all the alien costumes? _____ yd

| |
|-----------------------|
| 54 UNDERWEAR |
| $23\frac{1}{4}$ HERE |
| $4\frac{1}{2}$ KID |
| $4\frac{5}{8}$ HOLES |
| $3\frac{2}{3}$ MOTHER |
| $49\frac{1}{2}$ TO |
| $22\frac{1}{2}$ OUT |
| $12\frac{1}{4}$ WHO |
| $37\frac{1}{2}$ A |
| $7\frac{4}{5}$ NOT |
| 56 IT'S |
| $2\frac{1}{5}$ GET |

What Can You Use to Cut Through Waves?

Use the map to solve the problems below. Cross out the letter next to each correct answer. When you finish, the answer to the title question will remain.



| | |
|---|-----------------|
| R | $1\frac{1}{5}$ |
| W | $6\frac{5}{8}$ |
| E | $9\frac{2}{5}$ |
| P | $7\frac{1}{8}$ |
| A | 74 |
| T | $3\frac{1}{4}$ |
| S | $3\frac{7}{10}$ |
| A | 3:30 |
| L | 69 |
| E | $8\frac{1}{5}$ |
| W | $1\frac{2}{5}$ |
| T | 120 |
| S | 100 |
| A | $1\frac{4}{5}$ |
| F | 2:45 |

- On Sunday, Boy Scout Troop 2 hiked from Bear Bridge to Lotus Lake, then to Lookout Point, then to Eagle Station, and then back to Bear Bridge. How far did Troop 2 hike that day? _____ mi
- Jeff hiked $\frac{2}{3}$ of the distance from Lookout Point to Eagle Station and then stopped for lunch. How far had he hiked? _____ mi
- How much farther is it from Eagle Station to Bear Bridge than from Eagle Station to Lotus Lake? _____ mi
- Sierra Hiking Club took 12 tents and 20 sleeping bags on a weekend camping trip. Each tent weighed $5\frac{3}{4}$ pounds. What was the total weight of the tents? _____ lb
- Monica hiked from Bear Bridge to Lotus Lake in $1\frac{1}{2}$ hours. She spent 3 hours at the lake and then hiked back to Bear Bridge in $1\frac{1}{4}$ hours. If she left at 9:00 A.M., what time did she get back? _____ P.M.
- The distance from Tower Rock to Owl Creek (not shown) is $2\frac{1}{2}$ times the distance from Tower Rock to the parking lot. How far is it from Tower Rock to Owl Creek? _____ mi
- The record for the longest trout caught in Lotus Lake is $25\frac{1}{2}$ inches. How much shorter than the record was the $18\frac{3}{8}$ -inch trout that Karen caught? _____ in.
- On July 4 weekend, 180 people hiked on the trails near Lotus Lake. Of these, $\frac{1}{3}$ camped overnight. How many of the hikers did not camp overnight? _____