Warm Up Grade 7

$4.81 - 0.373$

1) A student subtracted 0.373 from 4.81 and got the difference of 0.108.

(Add/subtract decimals → line up the decimal)

a) What mistake did the student make and find the actual answer?

$$\begin{array}{r} 4.\overset{7}{8}\overset{1}{\cancel{1}}\overset{10}{0} \\ -\ 0.3\ 7\ 3 \\ \hline 4.4\ 3\ 7 \end{array}$$

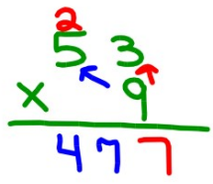
$$\begin{array}{r} 4\overset{7}{\cancel{8}}\overset{1}{1} \\ -\ 3\ 7\ 3 \\ \hline 1\ 0\ 8 \end{array}$$

Did not line up the decimal.

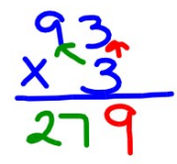
Let's Review

How to Multiply Whole Numbers

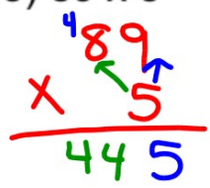
1)53 x 9



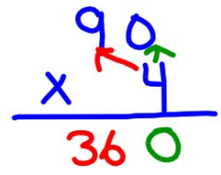
2) 93 x 3



3) 89 x 5



4) 90 x 4

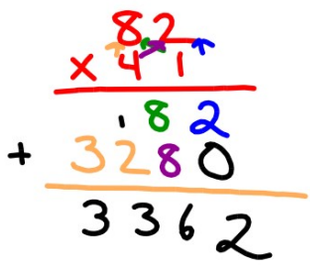


Answers

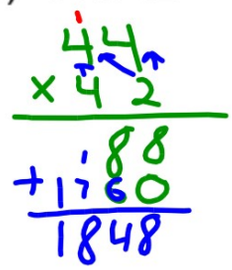
Let's Review

How to Multiply 2 digit by 2 digit

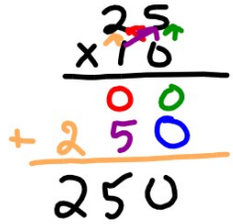
1) 82 x 41



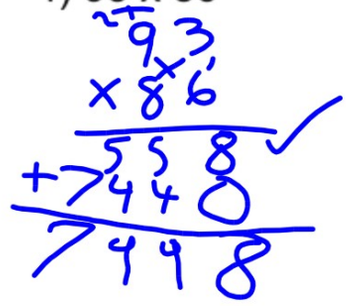
2) 44 x 42



3) 25 x 10

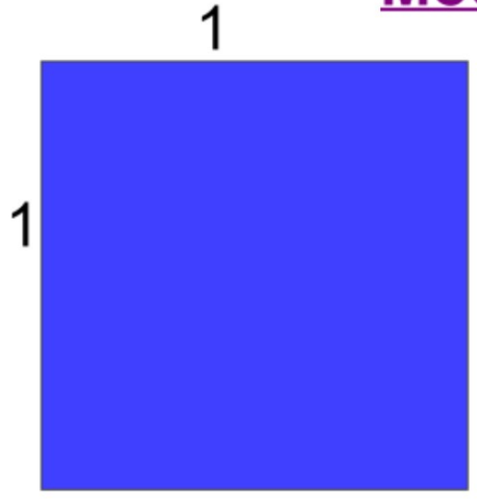


4) 93 x 86

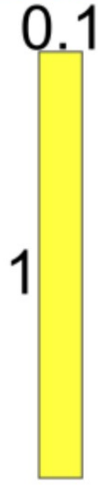


Answers

Models for Decimal with dimensions



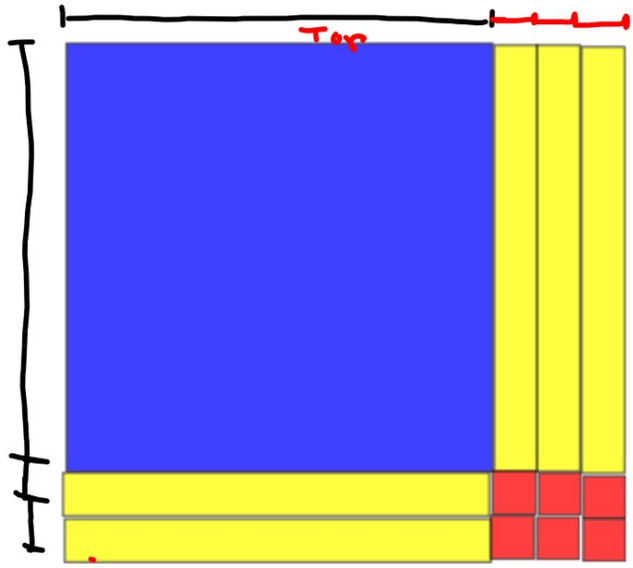
will represent
ones
1



will represent
tenths
0.1

will represent
hundredths
0.01

What multiplication sentence is being shown by the diagram? read top then side



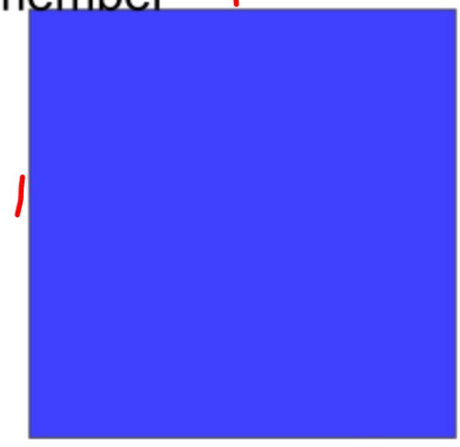
1.3 X 1.2
Top Side

1 ones 1.00
5 tenths 0.50
6 hundredths + 0.06
1.56

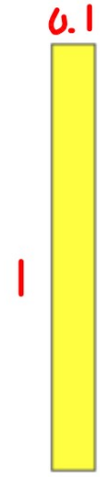
=

1.3 x 1.2
= 1.56

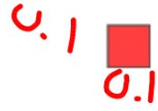
remember 1



represent 1

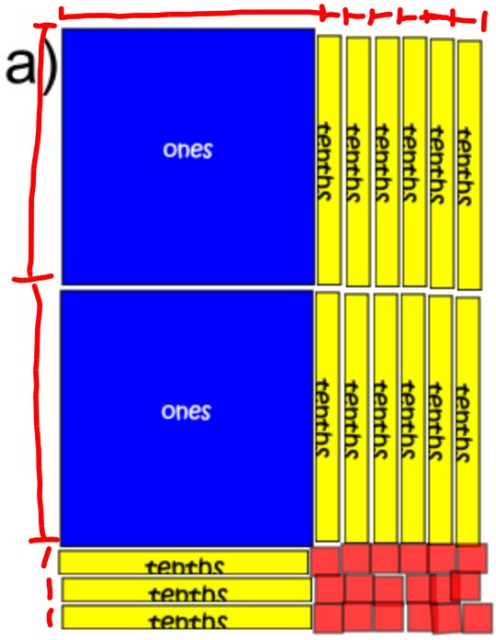


represent tenth



represents hundredth

a)



1.6 x 2.3

list the ones, tenths & hundredths

2 ones = 2.00

15 tenths = 1.50

18 hundredths = + 0.18

sum 3.68

show multiplication the regular way

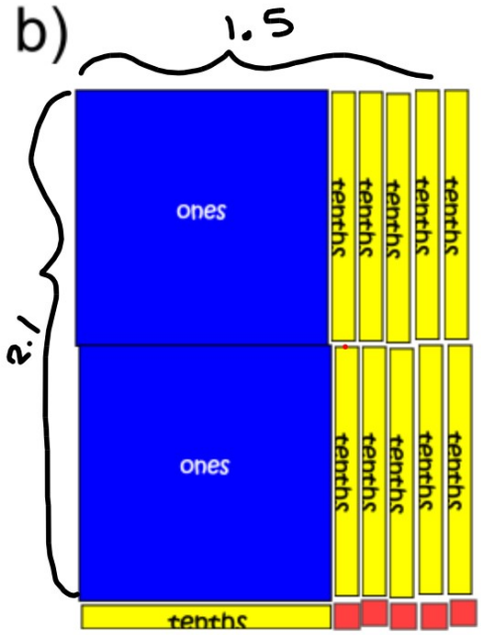
1.6 x 2.3 → 16 x 23

$$\begin{array}{r} {\scriptstyle 1}\,{\scriptstyle 1} \\ 16 \\ \times\ 23 \\ \hline 48 \\ 320 \\ \hline 368 \end{array}$$

SO

$$\begin{array}{r} 1.6 \\ \times 2.3 \\ \hline 7.68 \end{array}$$

b)



1.5 x 2.1

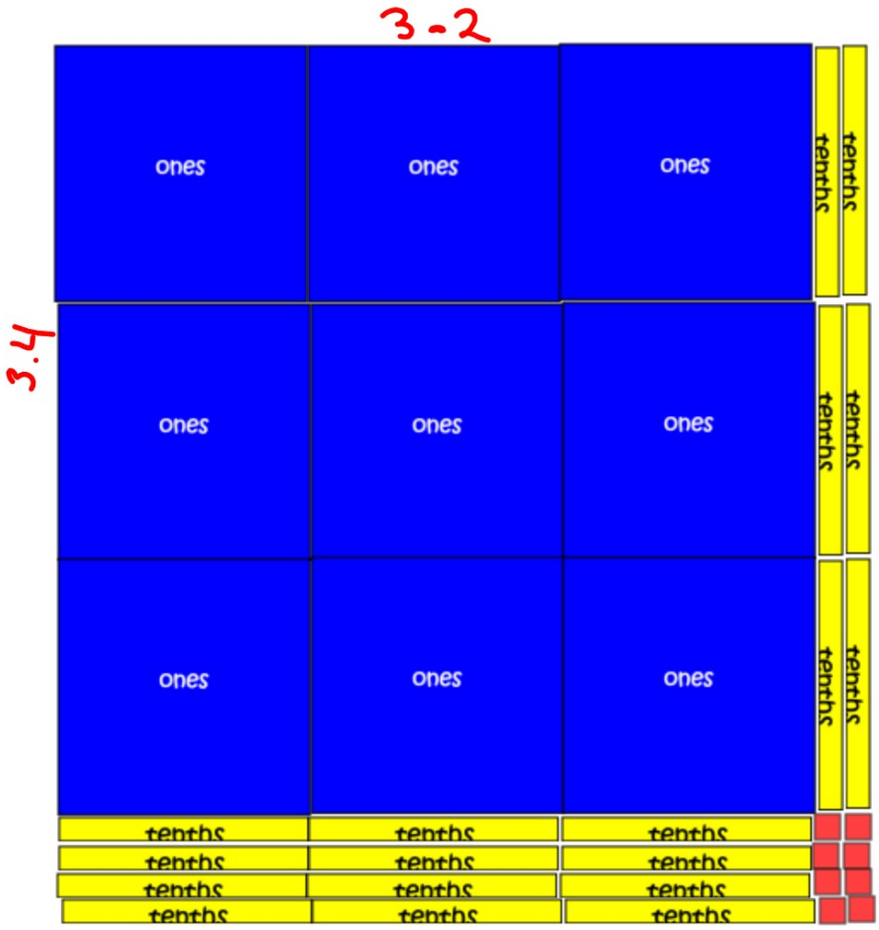
2 ones = 2.00

11 tenths = 1.10

5 hundreths = + 0.05

sum 3.15

show multiplication the regular way



3.2 × 3.4

9 ones = 9.00

18 tenths = 1.80

8 hundredths = 0.08

sum 10.88

DO IT OUT NORMALLY

$$\begin{array}{r} 32 \\ \times 34 \\ \hline 128 \\ 960 \\ \hline 1088 \end{array}$$

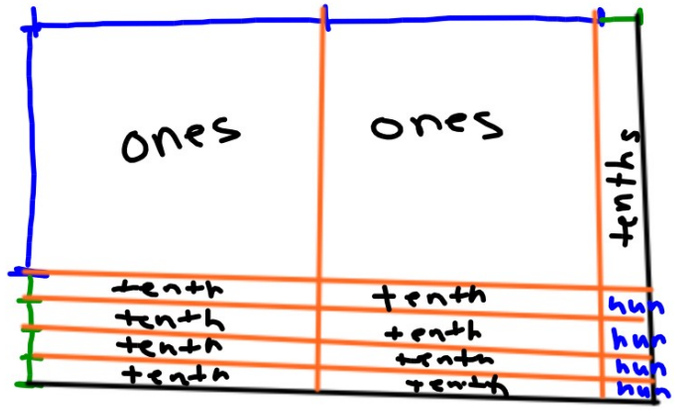
$$\begin{array}{r} 3.2 \\ \times 3.4 \\ \hline 10.88 \end{array}$$

Model the following multiplication

Tue Side

2.1 x 1.4

long short 2 ones short



2 ones 2.00

9 tenths 0.90

4 hundredths + 0.04

2.94

Model the following multiplication

1.2×0.4