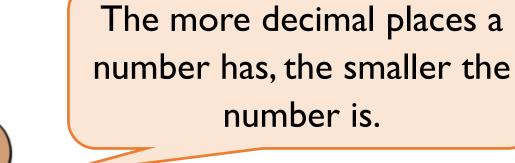




Tommy says,



Do you agree? Explain why.



Alex says that 3.24 can be written as 2 ones, 13 tenths and 4 hundredths.

Do you agree?

How can you partition 3.24 starting with 2 ones? How can you partition 3.24 starting with 1 one? Think about exchanging between columns.



Four children are thinking of four different numbers.



Teddy: "My number has four hundredths."

Alex: "My number has the same amount of ones, tenths and hundredths."

Dora: "My number has less ones that tenths and hundredths."

Jack: "My number has 2 decimal places."

Match each number to the correct child.



Using the digit cards 0-9 create a number with up to 3 decimal places e.g. 3.451

Cover the number using counters on your Gattegno

chart.

10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000
1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000
100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009

Explore what happens when you multiply your number by 10, then 100, then 1,000

What patterns do you notice?

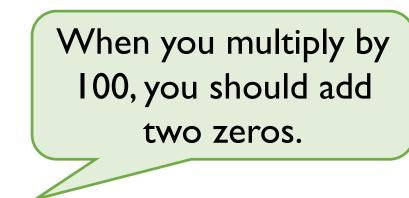


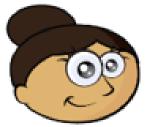
2 3 4 5 6 7 8 9 0

10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000
1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000
100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009



Dora says,



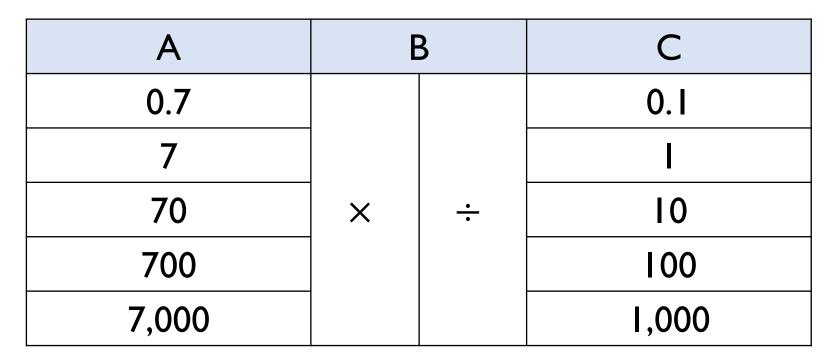


Do you agree? Explain your thinking.



Using the following rules, how many ways can you make 70?

- Use a number from column A
- Use an operation from column B.
- Use number from column C.





Can you find a path from 6 to 0.06? You cannot make diagonal moves.

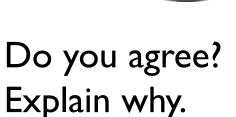
6	×10	×10	÷100
÷IO	×100	×100	÷IO
×10	÷IO	÷1,000	÷100
÷1,000	×1,000	×100	0.06

Is there more than one way?



Eva says,

When you divide by 10, 100 or 1,000 you just take away the zeros or move the decimal point.





Whitney says,

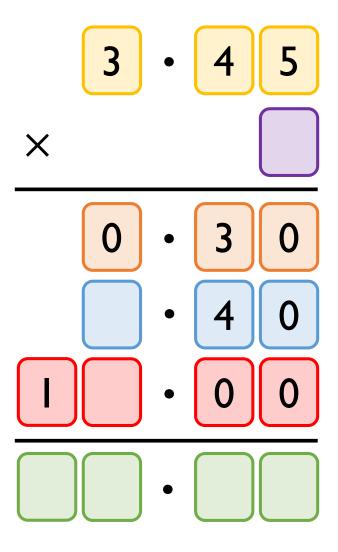
When you multiply a number with 2 decimal places by an integer, the answer will always have more than 2 decimal places.



Do you agree? Explain why.

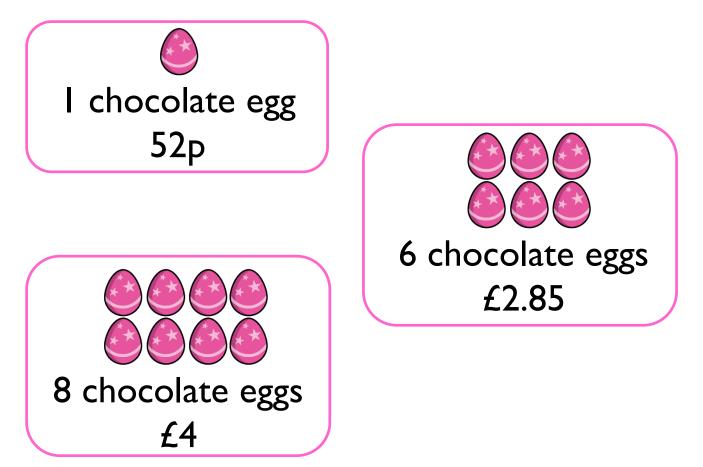


Fill in the blanks.



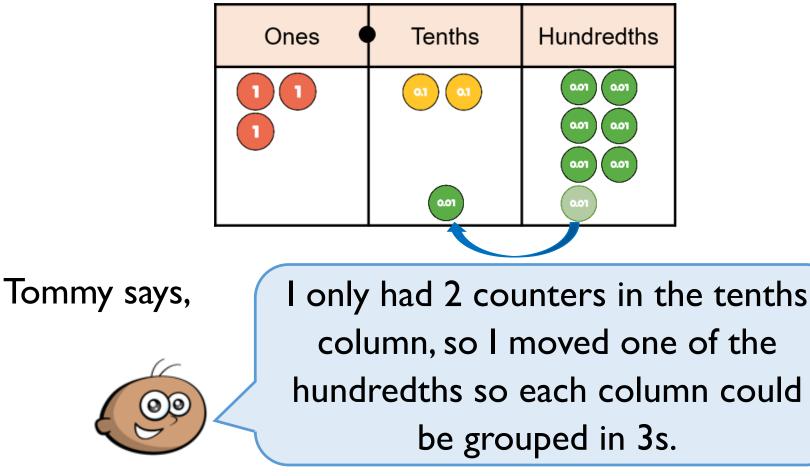


Chocolate eggs can be bought in packs of 1, 6 or 8 What is the cheapest way for Dexter to buy 25 chocolate eggs?





When using the counters to answer 3.27 divided by 3, this is what Tommy did:

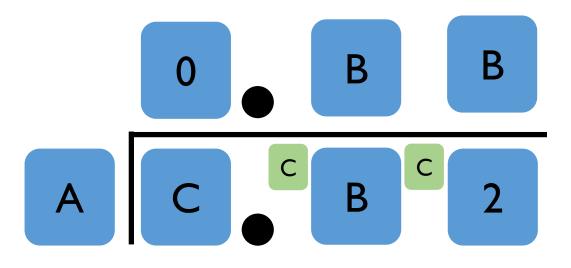


Do you agree with what Tommy has done? Explain why. White Rose Maths 2019



C is $\frac{1}{4}$ of **A B** = **C** + 2

Use the clues to complete the division.



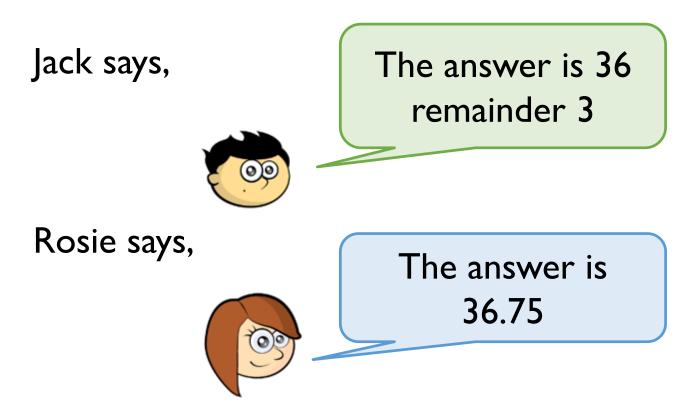


Each division sentence can be completed using the digits below.

$$\begin{array}{c|c} 1 & 2 & 3 & 4 & 5 & 6 \\ \hline & . & 3 & \div & = 0.26 \\ 12 & . & & = 4.2 \\ 4 & . & 8 & \div & = 1.07 \end{array}$$

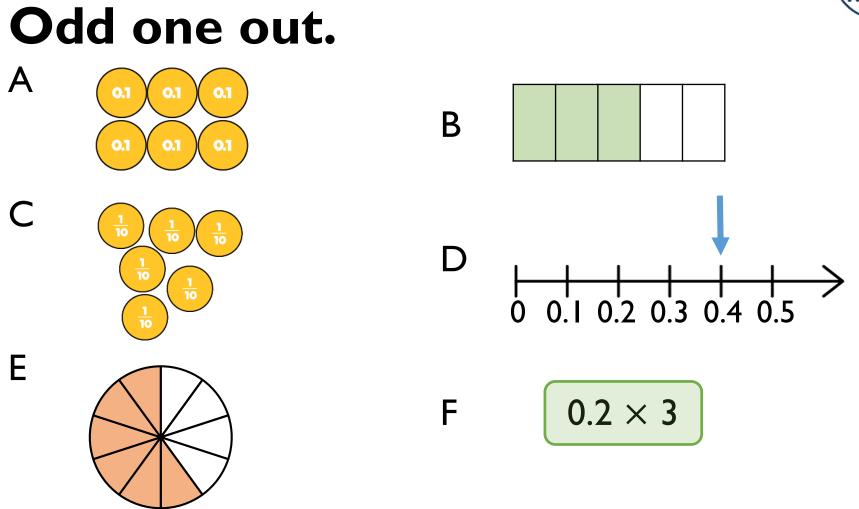


Jack and Rosie are both calculating the answer to 147 \div 4



Who do you agree with?

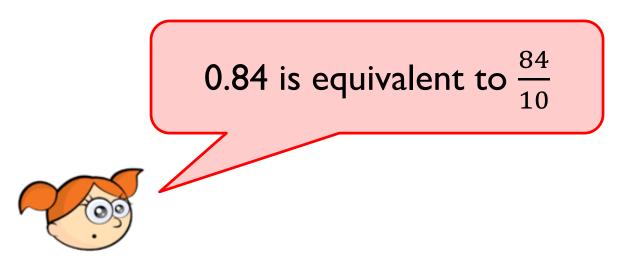




Which is the odd one out and why?



Alex says,

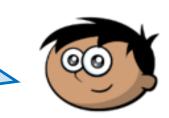


Do you agree? Explain why.

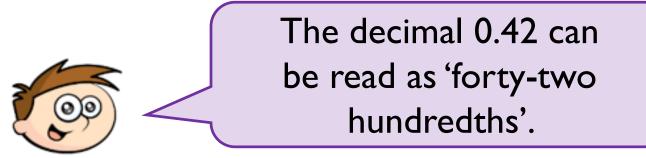


Amir says,

The decimal 0.42 can be read as 'four tenths and two hundredths'.



Teddy says,



Who do you agree with? Explain your answer.



True or False?

0.3 is bigger than $\frac{1}{4}$

Explain your reasoning.



Dora and Whitney are converting $\frac{30}{500}$ into a decimal.

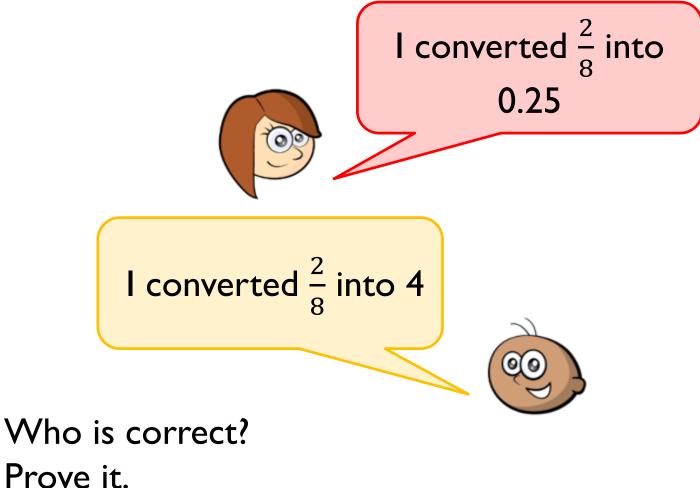
- Dora doubles the numerator and denominator, then divides by 10
- Whitney divides both the numerator and the denominator by 5
- Both get the answer $\frac{6}{100} = 0.06$

Which method would you use to work out each of the following?

Explain why you have used a certain method.

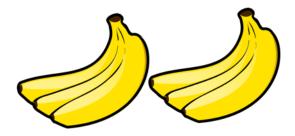


Rosie and Tommy have both attempted to convert $\frac{2}{8}$ into a decimal.





Mo shares 6 bananas between some friends.



Each friend gets 0.75 of a banana.

How many friends does he share the bananas with? Show your method.