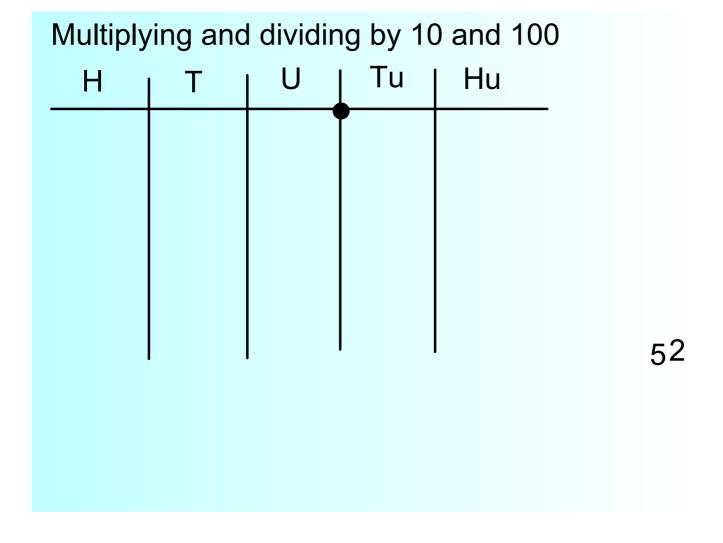
#### Fab four - fluency

- 1. 4882 + 310 =
- 2. 6423 150 =
- $3.54 \times 7 =$  (use grid method)
- 4. 480 8 =

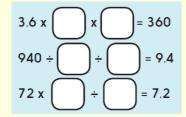


#### 11.01.21 I can multiply and divide by ten and a hundred.

# Mild Spicy Hot

•	
34 x 10	34 x 100
3.4 x 10	3.4 x 100
650 ÷ 10	650 ÷ 100
72 ÷ 10	7 ÷ 10
800 ÷ 100	80 ÷ 100
4.5 x = 45	4.5 x = 450
270 ÷ = 2.7	270 ÷ = 27

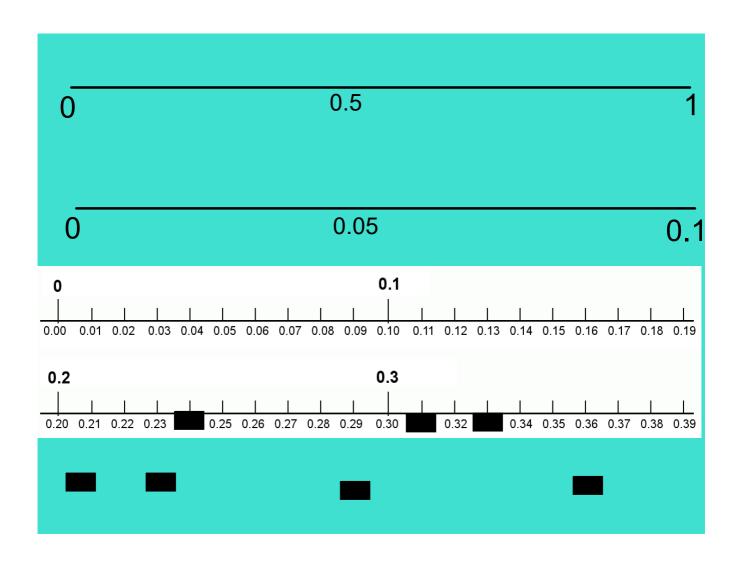
ПОІ
4 x 10 x 10 = 4 x
65 x 100 ÷ 10 = 65 x
280 ÷ 10 ÷ 10 = 280 ÷
760 ÷ 100 x 10 = 760 ÷
4.5 x = 4.5 x 10 x 10
3.7 x ÷ 10 = 3.7 x 10
600 ÷
0.7 x 100 ÷ = 0.7 x 10



Can you write some missing number questions for someone else to try?

# Fab four - fluency

- 1.7253 + 370 =
- 2.8462 280 =
- 3.  $156 \times 6 =$  (use grid method)
- $4.320 \div 8 =$

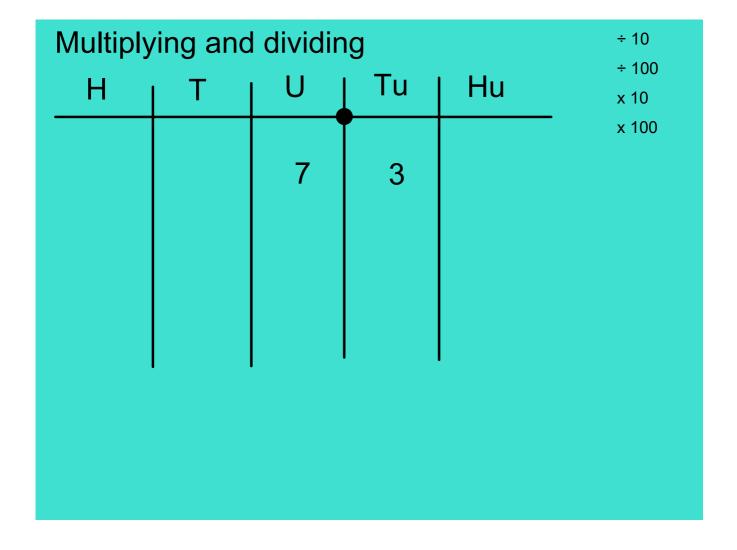


Th	Н	Т	U	Tu	Hu

672 ÷ 100

270 ÷ 100

27 ÷ 10



#### 12.01.21 I can multiply and divide by ten and a hundred.

Mild

Spicy

Hot

 $4 \times 100 =$ 

75 x 10 =

21 x 1000 =

 $100 \times 33 =$ 

60 x 10 =

2400 ÷ 100 =

68 ÷ 10 =

350 ÷ 1000 =

 $9 \div 10 =$ 

 $9 \div 1000 =$ 

15 x 10 ÷ 100

6 ÷ 100 x 1000

6 ÷ \_\_\_\_\_ = 0.6

\_\_\_\_ x 100 = 4500

0.74 = 74 ÷ \_\_\_\_

1000 x \_\_\_\_\_ = 65800

3.7 x \_\_\_\_ = 370

2800 ÷ \_\_\_\_ = 2.8

0.03 x \_\_\_\_ = 3

Put these calculations in order from smallest to biggest.

100 × 540 | 5.4 × 1000 | 5400 ÷ 10 | 5400 ÷ 1000 | 540 ÷ 10

By using a number from column A, an operation from B and a number from C, how many ways can you find to make 70?

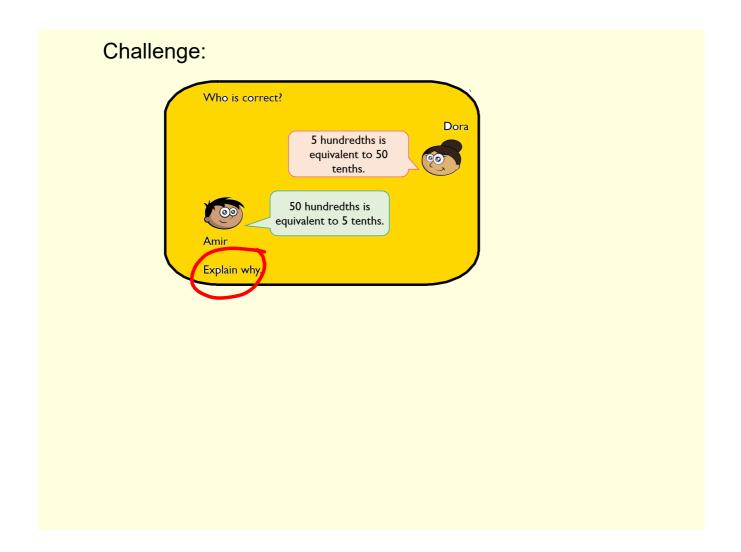
Α	В	O
7	\ \ \	1
70	×	10
700		100
7000	÷	1000

There are more than 4 ways.

Can you find a path from 6 to 0.06?

You are not allowed to make diagonal moves.

6	x 10	x 10	÷ 100
÷ 10	x 100	x 100	÷ 10
x 10	÷ 10	÷ 1000	÷ 100
÷ 1000	x 1000	x 100	0.06



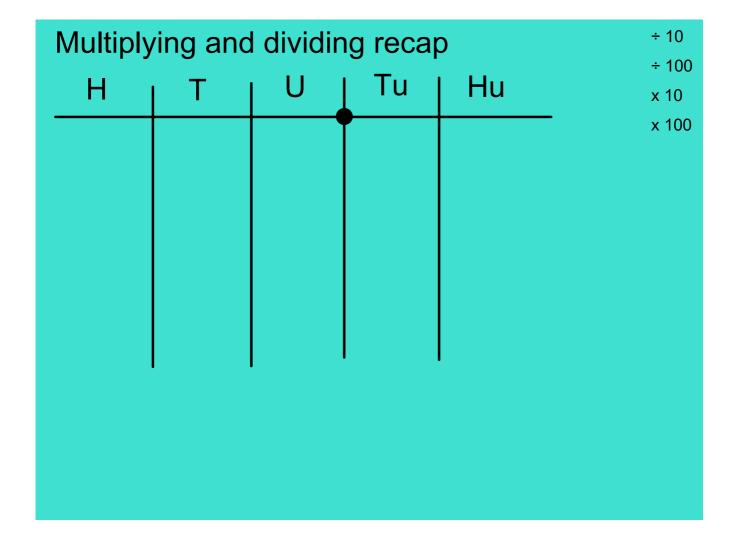
# Fab four - fluency

1. 6541 + 125 =

2. 3472 - 155 =

3.  $132 \times 7 =$  (use grid method)

4. 270 ÷ 9 =



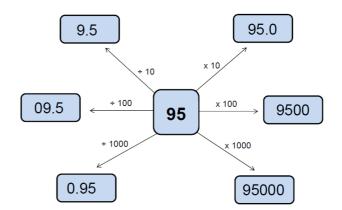
Mild					Spicy	
Reasoning – Multiplying and I	Dividing by 10, 100 and 1000	] [	-	fultiplying and Dividing by 10,	100 and 1000	
Here are four cards.  Use a card to complete each calculation. You can use	a card more than once.		Here are six cards. Use a card to complete each calculatio	on. You can use a card more than	ı once.	
x 100 ÷ 10	x 10 ÷ 100		x 10 x 100	x 1000 ÷ 10	÷ 1000	
27 = 270 9	= 0.9 12 = 1200		4.2 = 4200	93 = 0.93	286 = 0.286	
27 = 2.7 q	= 900 12 = 1.2		4.2 = 0.42	93 = 9300	286 = 2860	
27 = 2700 9	= 90 12 = 120		4.2 = 420	93 = 930	286 = 2.86	
Reasoning — Multiplying and Dividing by 10, 100 and 1000  Here are six cards.  Use a card to complete each calculation. You can use a card more than once.    x 10						

#### **Extension**

$$7 \times 10 \times 10 \times 21,000$$

$$\times$$
  $\div$   $=$  3.6

What do the symbols represent?



Which calculations are correct? Which are incorrect? Explain why.

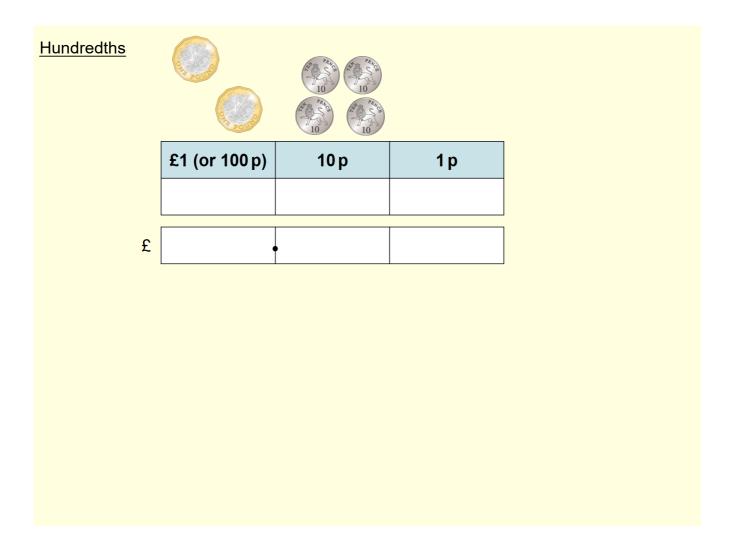
# Fab four - fluency

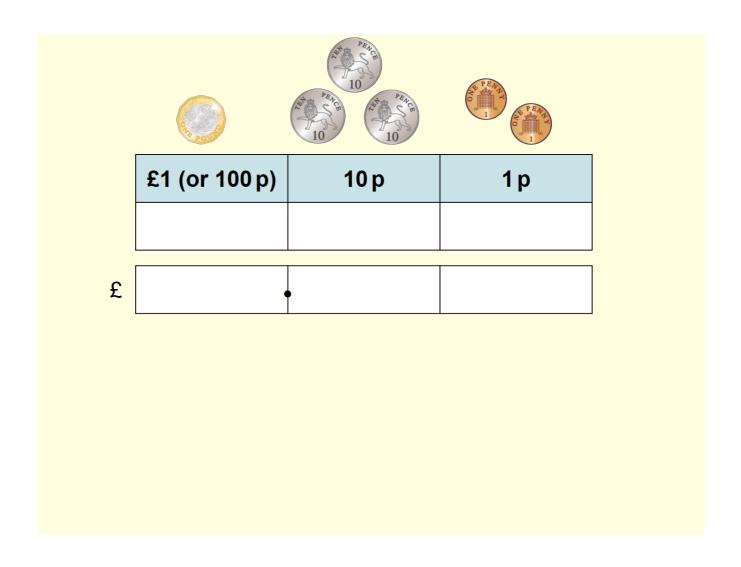
1. 4781 + 2534 =

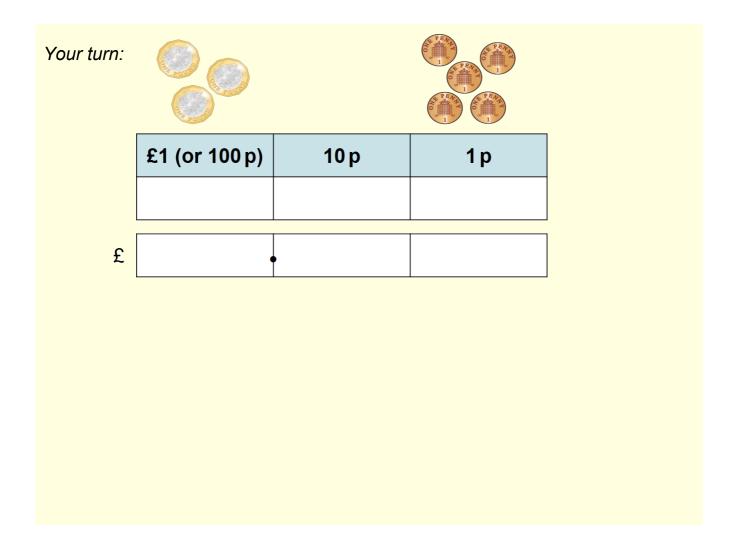
2. 5673 - 1029 =

 $3.234 \times 5 =$  (use grid method)

 $4.640 \div 8 =$ 

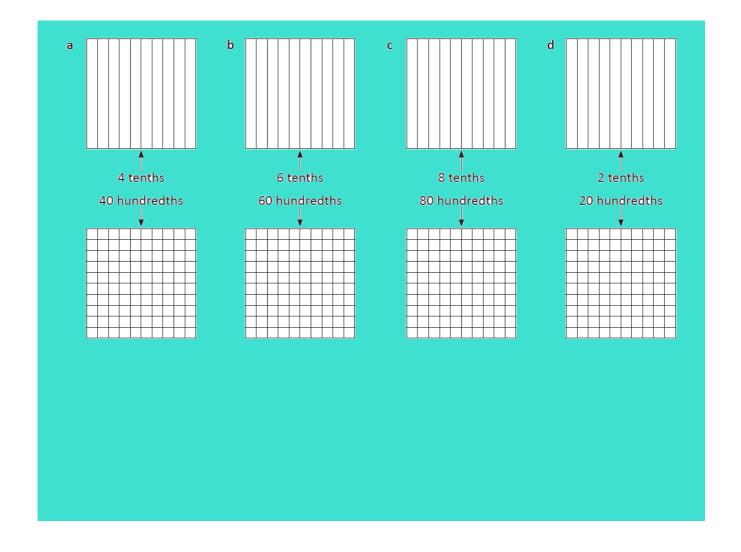


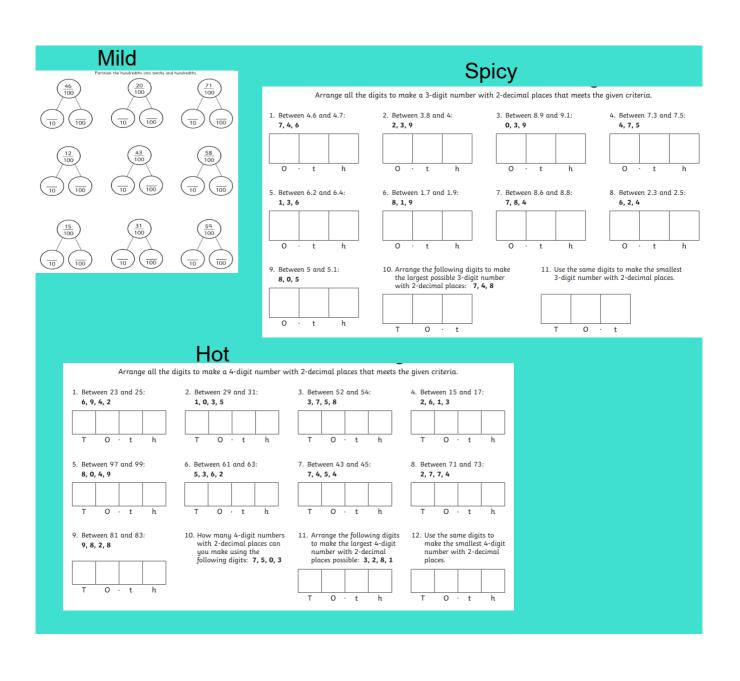






I can	count	t in hu	<u>ndre</u>	ths.	
1)	0.4	0.5	0.6	0.7	
2)	0.9	0.8	0.7	0.6	
3)	0.9	1	1.1	1.2	
4)	0.7		0.9		1.1
5)	2.4	2.3			2
6)	0.73	0.74	0.75	0.76	
7)	0.32	0.31	0.3	0.29	
8)	5.67		5.69		5.71
9)	9.92	9.91	9.9		
10)	10.32	10.33			





# Fab four - fluency

1.3462 + 4783 =

2. 6832 - 2356 =

 $3.226 \times 3 =$  (use grid method)

 $4.360 \div 9 =$ 

#### Tenths and hundreths - fractions and decimals

$$0.6 = 6/10 = 60/100$$

$$0.06 = 6/100$$

#### I can convert fractions to decimals

Mild	Spicy	Hot
$\frac{76}{100} = 0.76$ 10. $\frac{70}{100} = $	1. $\frac{8}{100} = 0.08$ 11. $\frac{24}{100} = $	1. $\frac{160}{100}$ = 1.6
$\frac{49}{100} = _{10}$ 11. $\frac{44}{100} = _{10}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2. $\frac{60}{100} = $ 12. $\frac{48}{100} = $ 3. $\frac{43}{100} = $ 13. $\frac{9}{9} = $
. 20 = 12. 90 =	3. $\frac{29}{100} = $ 13. $\frac{7}{100} = $ 4. $\frac{45}{100} = $ 14. $\frac{65}{100} = $	3. $\frac{43}{100} =$ 13. $\frac{9}{100} =$ 4. $\frac{73}{100} =$ 14. $\frac{165}{100} =$
13. $\frac{80}{100}$ =	100 5. 20 = 15. 22 =	5. $\frac{129}{100}$ = 100 15. $\frac{22}{100}$ =
$\frac{66}{100} = \phantom{00000000000000000000000000000000000$	$6. \frac{7}{100} = \frac{16. \frac{69}{100} = }{17. \frac{76}{100} = }$	6. $\frac{\cdot}{100} = \frac{\cdot}{100} = \frac{\cdot}{100} = \frac{\cdot}{100} = \frac{\cdot}{100}$
$\frac{14}{100} = $ 15. $\frac{65}{100} = $	7. $\frac{99}{100} = \frac{82}{100} = \frac{8}{100}$	8. $\frac{2}{100}$ =
$\frac{84}{100} = $ 16. $\frac{76}{100} = $	8. $\frac{33}{100} = _{_{_{_{_{_{_{1}}}}}}}$ 19. $\frac{25}{100} = _{_{_{_{_{_{_{_{_{1}}}}}}}}}$	9. $\frac{5}{50}$ = 18. $\frac{23}{100}$ =
. $\frac{16}{100}$ = 17. $\frac{81}{100}$ =	9. $\frac{50}{100} = 20$ . $\frac{65}{100} = 10$ .	$10. \frac{70}{100} = \underline{\qquad \qquad } 19. \frac{5}{10} = \underline{\qquad \qquad }$ $20. \frac{65}{100} = \underline{\qquad \qquad }$
$\frac{30}{100} = $ 18. $\frac{25}{100} = $	100	100

#### **Extension**

#### Missing numbers

Fill in the gaps using the numbers.

#### Missing numbers

Fill in the gaps using the numbers.

$$4 \div \boxed{ } = \frac{4}{10}$$

$$4 \div \boxed{ } = 1$$

$$4 \div \boxed{ } = 4$$

$$4 \div \boxed{ } = 4$$

$$4 \div \boxed{ } = 0.4$$
Note: one number is used twice

# Explain the mistakes Mistake 1 $42 \div 10 = 420$ Mistake 3 $42 \div 10 = 420$ $42 \div 10 = 420$ Mistake 3 $42 \div 10 = 420$

