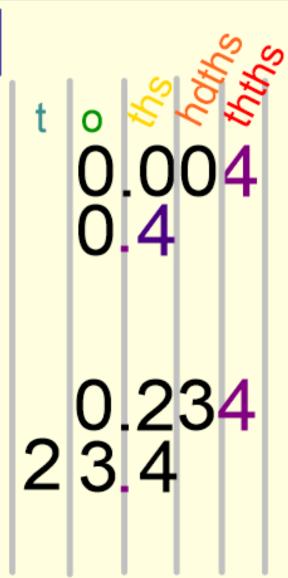
0.004x100

0.234x100



Step 1: Place your two decimals

Step 2: Move each number in turn to the left with the correct number of spaces.

Step 3: Remove unnecessary zeros, or add place holders if needed. To the left...

x10 = 1 space

x100= 2 spaces

x1000= 3 spaces

h

0.4÷100

23.4÷100

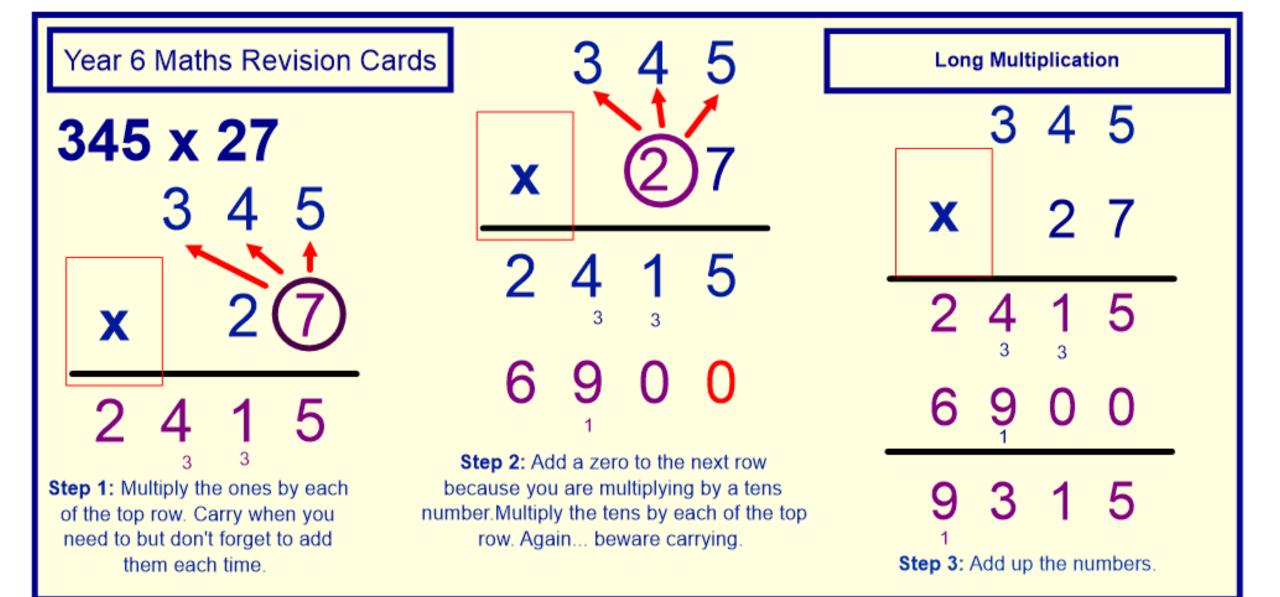
2 3.4 0.234

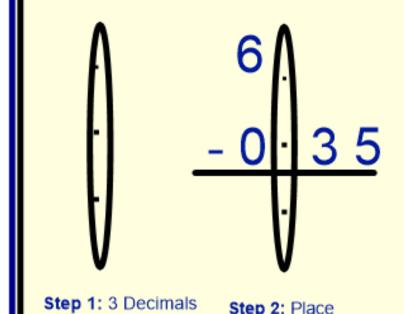
0.004

Step 1: Place your two decimals

Step 2: Move each number in turn to the left with the correct number of spaces.

Step 3: Remove unnecessary zeros, or add place holders if needed. To the right...



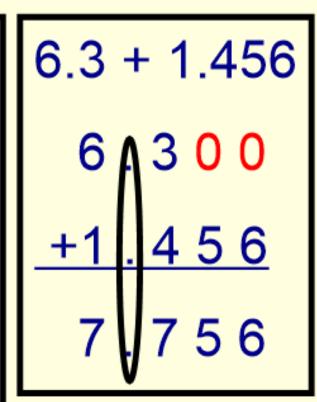


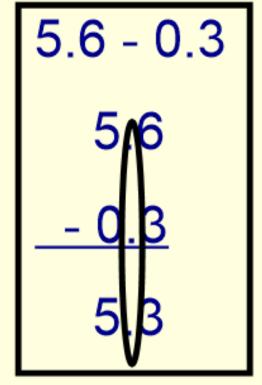
and a sausage. One

is for your answer.

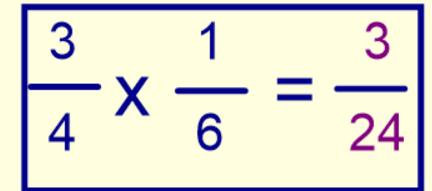
Step 2: Place

numbers on.





Multiplying Fractions-1



Two Fractions

Example : Simply multiply top number and bottom numbers

Mixed Number and Fraction

$$2\frac{3}{4} \times \frac{1}{6}$$

Step 1: Convert mixed number into improper

Step 2: Multiply top and bottom numbers.

$$\frac{11}{4}$$
 $\times \frac{1}{6}$ $= \frac{11}{24}$

Whole Number and Fraction

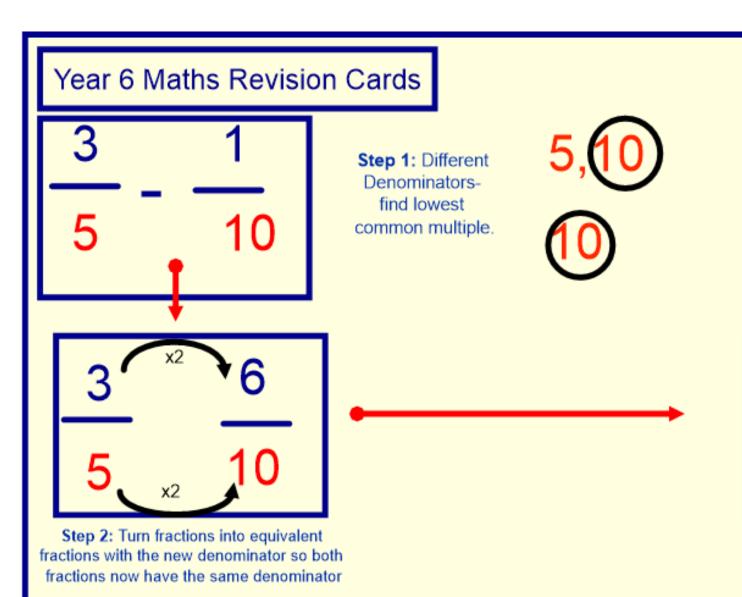
$$2 \times \frac{5}{6}$$

Step 1: Convert mixed number into improper

$$\frac{2}{1} \times \frac{5}{6} = \frac{10}{6}$$

Step 2: Multiply top and bottom numbers.

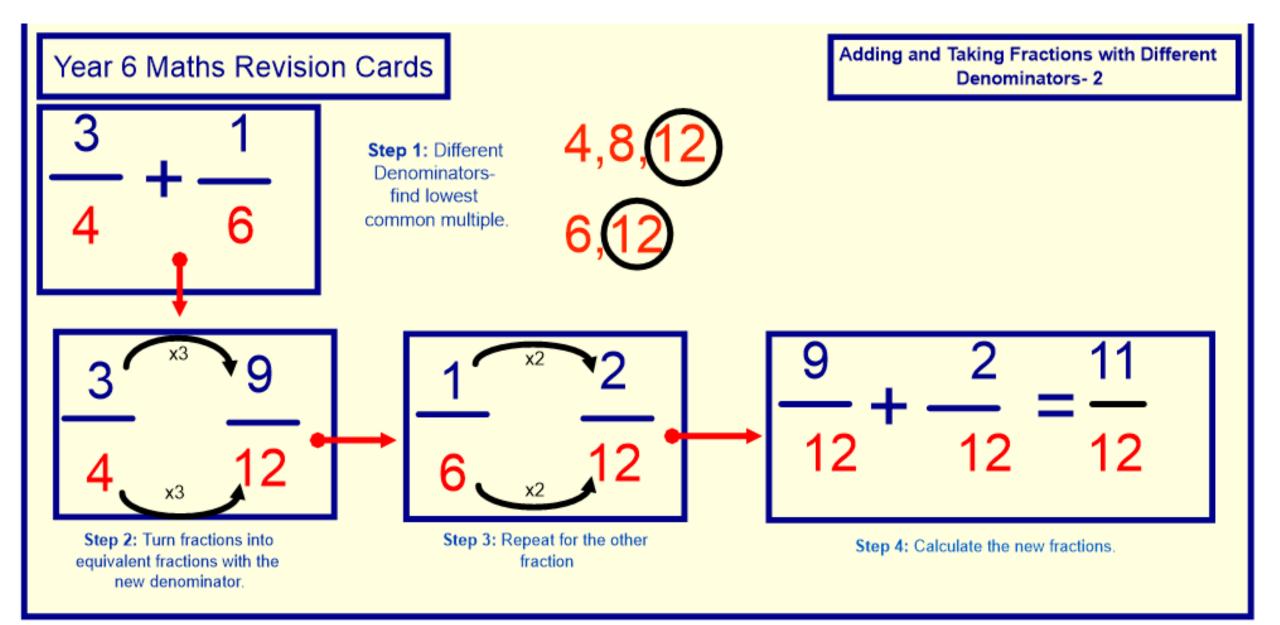
 $1\frac{4}{10}$

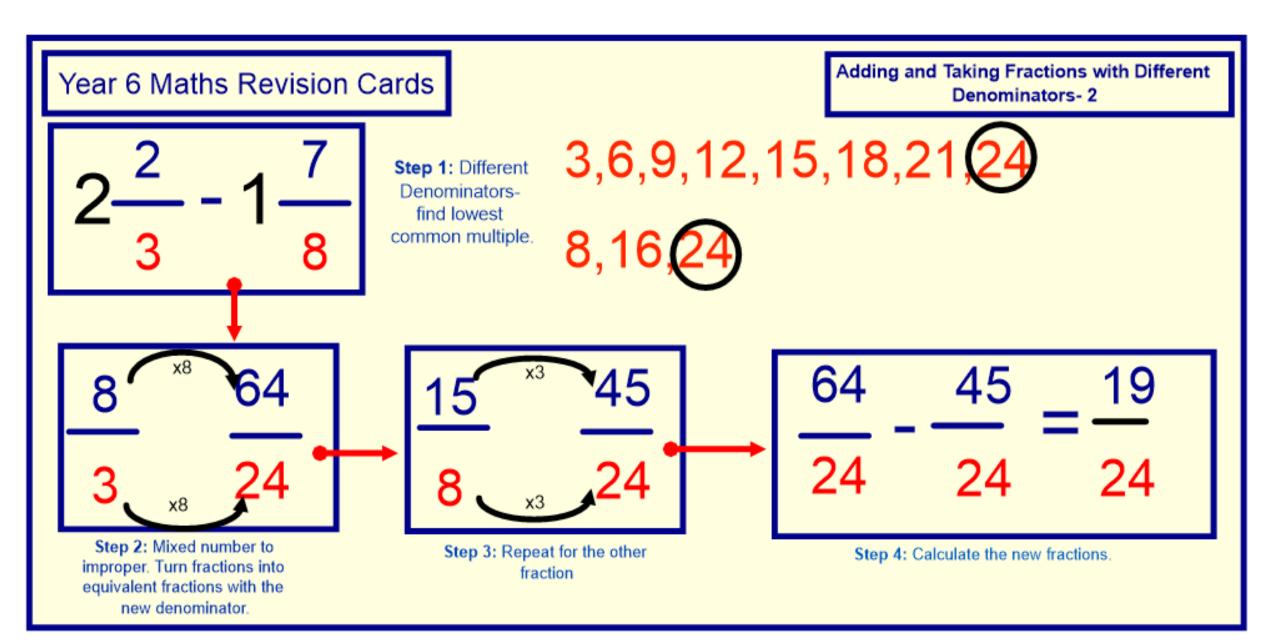


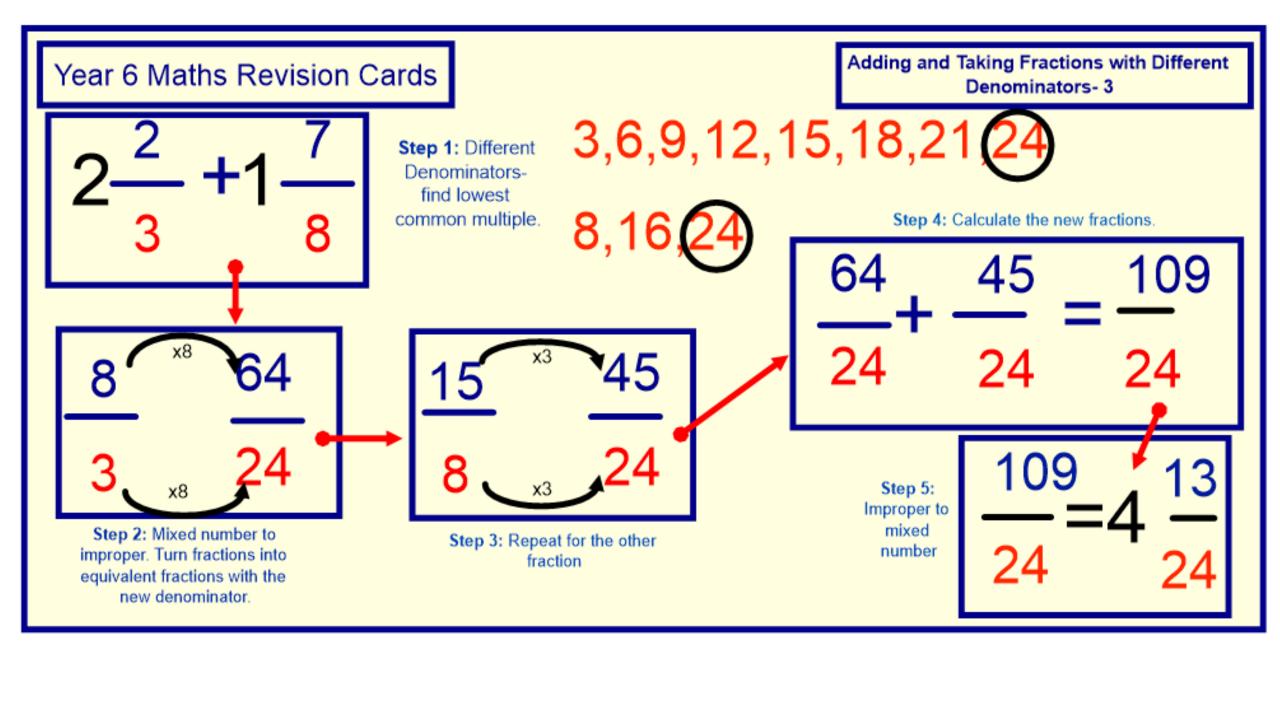
Adding and Taking Fractions with Different Denominators- 1

$$\frac{6}{10} - \frac{1}{10} = \frac{5}{10}$$

Step 3: Calculate with the new fractions.









Percentages- 1

10%- Divide by 10 (One space to the right)

5%- Half of what 10%

20%- Multiply 10% by 2

25%- 20%+5%

30%- Multiply 10% by 3

35%- 30%+5%

40%- Multiply 10% by 4

45%- 40%+5%

50%- Multiply 10% by 5 (Or Half)

55%-50%+5%

60%- Multiply 10% by 6

65%-60%+5%

70%- Multiply 10% by 7

75%- 70%+5%

80%- Multiply 10% by 8

85%-80%+5%

90%- Multiply 10% by 9

95%- 90%+5%

35% of 330

Step 1: Find 10%

10%- Divide by 10

(One space to the right)

330.

33.

Step 2: Find 5% **33**

5%- Half 10%

15 + 1.5 = **16.5**

ı

Step 4: Find 35%

Add 30% and 5%

3 3.0

+ |1 6.5

4 9.5

Step 3: Find 30%

Multiply 10% by 3

X

3

1%- Divide by 100 (Two spaces to the right)

2%- 1% x 2

3%- 1% x 3

4%- 1% x 4

5%-1% x 5

6%-1% x 6

7%-1% x 7

8%-1% x 8

9%-1% x 9

7% of 330

Step 1: Find 1%

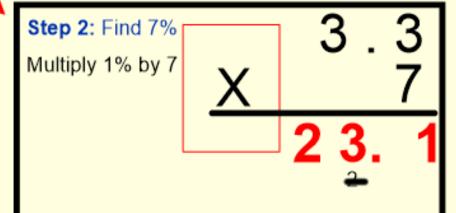
330.

1%- Divide by 100

(Two spaces to the right)

3.3

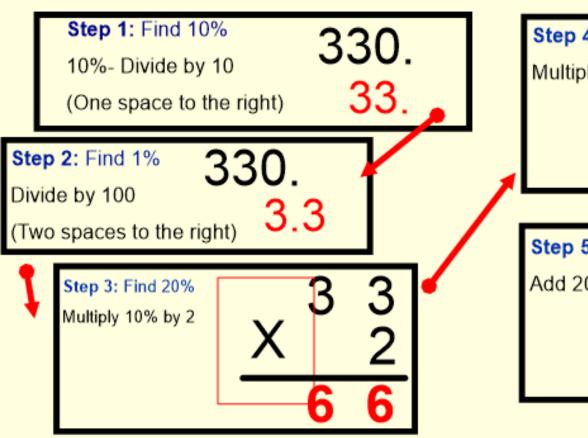
٥.

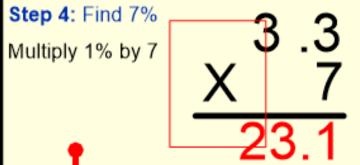


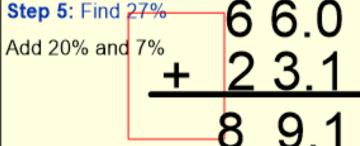
10%- Divide by 10 (One space to the right)

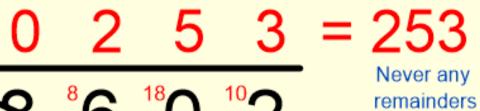
1%- Divide by 100 (Two spaces to the right)

27% of 330

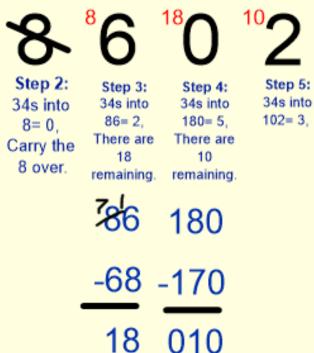








34



Use column method to see what is remaining.

Long Division

Step 1: Count 6 lots of 34, partition to make easy. Count in steps of the tens and the ones. So 30s and 4s.

$$30 + 4 = 34$$

$$60 + 8 = 68$$

$$90 + 12 = 102$$

$$120 + 16 = 136$$

$$150 + 20 = 170$$

$$180 + 24 = 204$$

It isn't usually anymore than 6.

0.3×4

$$3x4=12$$

=1.2

Underline the one number after decimal.

Example 1

Multiply the numbers you can see 3x4.

Ensure one decimal place in your answer.

0.07×4

$$7x4 = 28$$

$$=0.28$$

Example 2

Underline two numbers after decimal

Multiply the numbers you can see 7x4.

Ensure two decimal places in your answer.

0.6 x 40

$$=24.0$$

Example 3

Underline the one number after decimal.

6x4=24, so 6x40=240.

Ensure one decimal place in your answer.

24.0 or just 24.

Multiplying Decimals

 0.5×0.4

5x4=20

0.20

0.<u>15</u> x 0.<u>3</u>

15x3=45

0.045

Example 4

Underline the two numbers after decimal.

Multiply the numbers you can see 5x4.

Ensure two decimal place in your answer. Place holder before zero.

Example 5

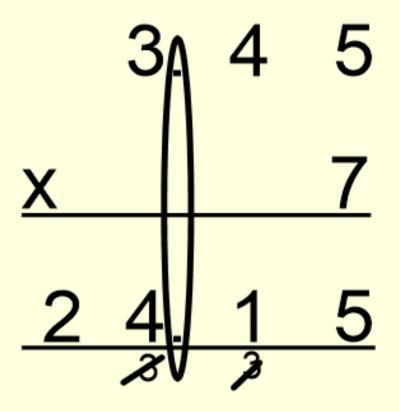
Underline the three numbers after decimal.

Multiply the numbers you can see 15x3.

Ensure three decimal places in your answer. Place holder before zero and a zero before the 45.

Multiplying Decimals by Whole Number

 3.45×7



Step 1:

Place numbers into a column method. No placeholders needed.

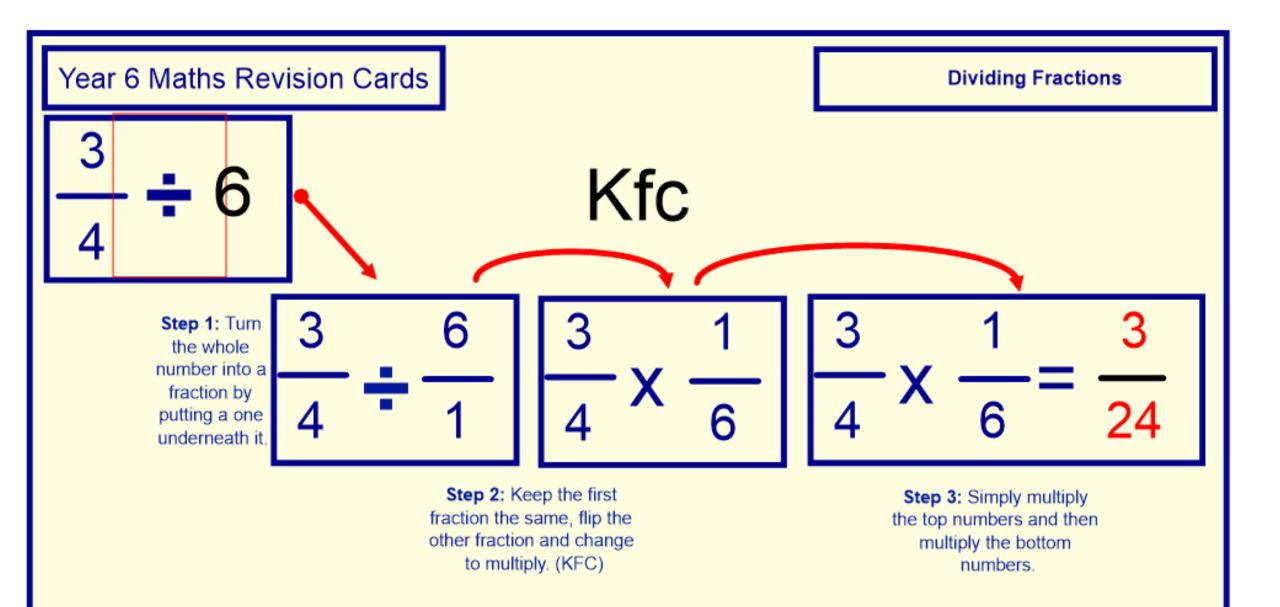
Step 2:

Ensure decimal is ready in your answer. Sausage!

Step 3:

Multiply each number by the whole number.

Don't forget the decimal in the answer.



Indices

$$5^2 = 5x5$$

=25

Example 1: 5 squared, means 5 times by itself.

$$5^3 = 5 \times 5 \times 5$$

5x5 = 25

25x5

Example 2:

Step 1: Multiply the first two numbers.

Step 2:

Multiply the answer by the final numbers.

2 5

<u>x 5</u>

125 2 = 125

BIDMAS: Order of Operations

have mixed operations. Write BIDMAS down the side. Tick off and complete in order.

Brackets

Indices (e.g. squared/cubed)

Division

Multiplication

Addition

Subtraction

B
$$3 \times 7 + 5^{2} - 2$$
I $3 \times 7 + 25 - 2$
D $21 + 25 - 2$
M
A $46 - 2$
S $= 44$
Example 1

No brackets, so deal with the indices first. 5 squared.

No division, so next do the multiplication.

Next the addition, and finally the subtraction.

B
$$3x(7+5)-2$$
I $3x + 12 - 2$
D $36 - 2$
M = 34
A
S Example 2

Brackets first. No indices.

No division, so do the multiplication.

Finally, subtract.