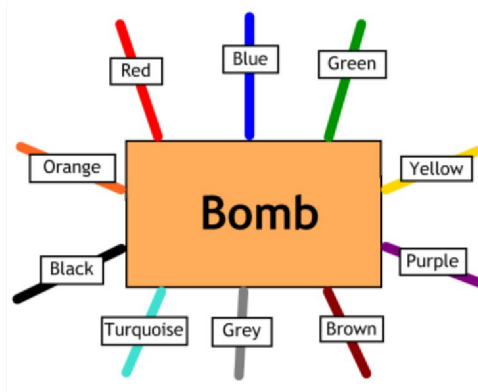


Adding and subtracting fractions

Defuse the Bomb – Adding and Subtracting Fractions 1

The Evil Maths Genius, has planted a ticking time bomb to destroy all of reading books in the library.

“Maths will be the only subject taught in the whole world!” he could be heard screaming as he headed to his secret hideout. You must defuse that bomb using the mathematical clues he’s left.



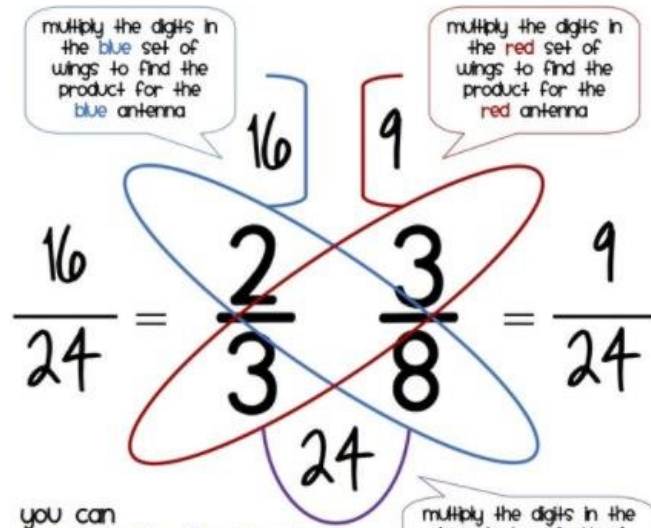
Answer the questions, then cut the coloured wires in the order that the answers appear, using the table below:

Red	Blue	Green	Yellow	Purple	Brown	Grey	Turquoise	Black	Orange
$1\frac{8}{63}$	$\frac{3}{20}$	$\frac{7}{8}$	$\frac{19}{40}$	$\frac{11}{12}$	$\frac{11}{15}$	$1\frac{5}{63}$	$\frac{3}{5}$	$1\frac{1}{12}$	$\frac{3}{10}$

Here are the clues that show which order to cut the wires –
you may have to simplify your answers, so look carefully:

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

Fraction Butterfly



you can compare the fractions by comparing the products in the antennae

create an equivalent fraction for each original fraction using the new numerators and common denominator

add or subtract the fractions using the equivalent fractions

multiply the digits in the denominators (bottom) to find a common denominator

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Simplifying Fractions

*Write the fraction in lowest term

To simplify a fraction: $\frac{6}{9}$

- list the factors of both the numerator and denominator
 - 6: 1, 2, 3, 6
 - 9: 1, 3, 9
- Circle the common factors. Which is the greatest?

The greatest common factor will be the Magic One!
- Divide both numerator and denominator by the Magic One.

$$\frac{6}{9} \div \frac{3}{3} = \frac{2}{3}$$

A fraction with no common factors other than 1 is in simplest form.

What you do to the bottom, you do to the top!