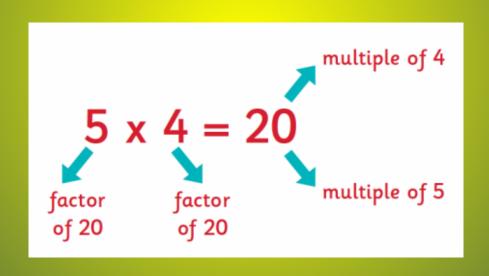
30.4.2020

I can add and subtract fractions with denominators that are multiples of the same number.



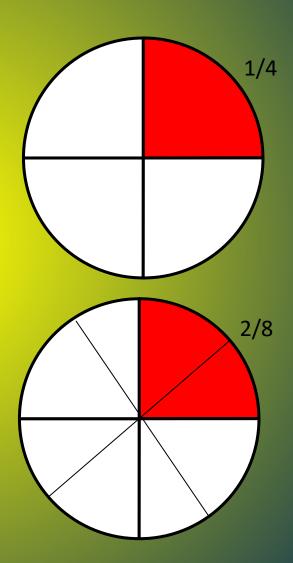
GENERAL RULE FOR CALCULATING WITH FRACTIONS

- Whatever you do the bottom of the fraction, you do the same to the top.
- This relates to addition and subtraction.
- Why do you think this is?

Equivalent Fractions

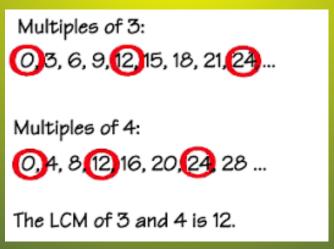
• What ever you do to the bottom do to top, whatever you do to the top do to the bottom.

EG:
$$\frac{1}{3}$$
 $\frac{2}{6}$ $\frac{4}{5}$ $\frac{12}{15}$ $\div 3$



+ - RULES FOR ADDING and SUBTRACTING FRACTIONS

- Make sure the denominators (bottom numbers) are the same, (change them if they are not) then add or subtract the top numbers and place the answer over the denominator
- You have to find the LCM (Least Common Multiple) and multiply the fraction.



Try these

•
$$4/7 + 3/7$$

•
$$7/10 - 2/10$$

How to solve when denominators are different?

- What is the problem?
- How would I solve this?
- If I multiply 4 by 2 I will get 8. 8 is my LCM. What else do I have to do?
- Whatever you do to the bottom of the fraction you do the same to the top

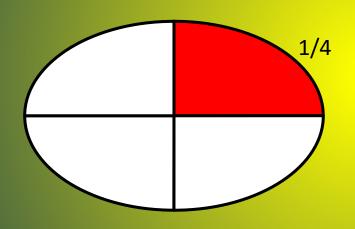


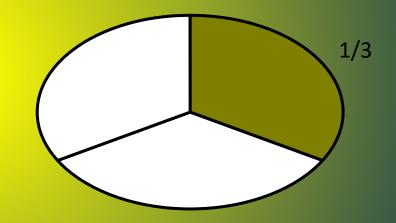
$$3/8 + 2/8 =$$

1/4 + 1/3

What can we change them to?

What will be the new denominator?





4 and 3 both divide into 12

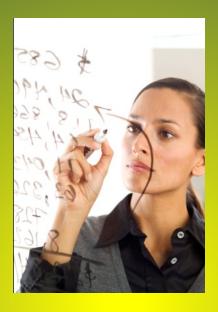
So we can change them into 12ths

Solution

$$\frac{3}{12} + \frac{4}{12} = \frac{7}{12}$$

Task 1

- a) 1/3 + 2/6
- b) 1/5 + 4/10
- c) 6/7 4/21
- d) 2/4 + 7/20
- e) 7/8 + 15/32
- f) 34/50 4/10
- g) 82/100 4/50
- h) 34/35 + 4/21





Task 2

- a) 3/5 + 9/20
- b) 3/4 8/12
- c) 6/7 18/28
- d) 2/3 + 7/12
- e) 6/9 + 27/36
- f) 5/8 + 2/6
- g) 4/5 2/7
- h) 4/6 + 3/5
- i) 5/9 2/8
- j) 5/9 + 12/27