


To be able to simplify fractions

MathShed

Starter:  
Which one doesn't belong?




Explain your answer.

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Activity 1:  
Jamal simplified  $\frac{10}{15}$  by dividing the numerator and denominator by their highest common factor.  
Factors of 10: 1, 2, 5, 10  
Factors of 15: 1, 2, 3, 5, 15  
The highest common factor is 5.  
Use Jamal's strategy to simplify the following fractions:



$\frac{4}{16}$        $\frac{12}{21}$        $\frac{30}{36}$        $\frac{35}{50}$

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Activity 2:  
Yasmin has 4 packets of cookies. 3 are full and one packet is  $\frac{9}{12}$  full.  
She says, "To simplify  $3\frac{9}{12}$ , the whole number remains the same, but you can simplify the fraction from  $\frac{9}{12}$  to  $\frac{3}{4}$ . So,  $3\frac{9}{12} = 3\frac{3}{4}$ ."  
Use Yasmin's strategy to simplify:

a)  $3\frac{12}{15} =$   
b)  $4\frac{27}{45} =$   
c)  $\frac{36}{10} =$   
d)  $\frac{34}{8} =$

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Activity 3:  
Add the fractions below, giving the answers in their simplest form.

a)  $\frac{5}{12} + \frac{3}{12} =$   
b)  $\frac{7}{12} + \frac{4}{12} =$   
c)  $\frac{5}{12} + \frac{9}{12} =$   
d)  $\frac{9}{12} + \frac{7}{12} =$

Do they all need to be simplified?  
Explain your answer.

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Activity 4:  
Place the fraction cards in the correct column.

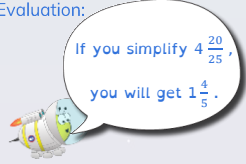
Equivalent to $\frac{1}{2}$	Equivalent to $\frac{1}{4}$	Equivalent to $\frac{2}{3}$	Equivalent to $\frac{3}{4}$

$\frac{4}{8}$     $\frac{3}{12}$     $\frac{18}{24}$     $\frac{10}{15}$     $\frac{10}{20}$     $\frac{12}{48}$     $\frac{27}{36}$     $\frac{22}{33}$

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Evaluation:  
If you simplify  $4\frac{20}{25}$ ,  
you will get  $1\frac{4}{5}$ .



Is Astrobee correct?  
Explain your answer.