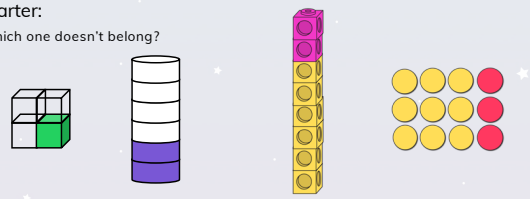
To be able to simplify fractions

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:

$\frac{10}{15} \overset{\div 5}{=} \frac{2}{3}$

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

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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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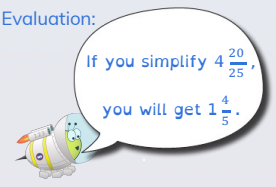
Evaluation:



Is Astrobee correct?
Explain your answer.