

Fractions day 3

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Mixed Fractions - Has a whole number in front of the partial number

$$1\frac{3}{4} = 1.75$$

Converting Mixed Proper Fractions Into Improper

ex: $2\frac{1}{5} = \frac{11}{5}$

steps:

- ① denominator \times whole number
- ② Product from ① adds to numerator
- ③ do not change denominator (yet)

You try:

a) $3\frac{7}{8} = \frac{31}{8}$

b) $1\frac{11}{12} = \frac{23}{12}$

c) $2\frac{3}{4} = \frac{11}{4}$

Convert from Improper Fractions to Mixed Proper Fractions

ex:

$$\frac{15}{4} = 3\frac{3}{4}$$

4 8 12 16 ...
4 \times 3

steps:

- ① list multiples of denominator. Choose value closest to But smaller than numerator. The amount of times the multiple goes IN to the numerator is the whole number
- ② Subtract the multiples value from the numerator
- ③ denominator does not change

You try:

a) $\frac{9}{7} = 1\frac{2}{7}$

b) $\frac{5}{4} = 1\frac{1}{4}$

c) $\frac{12}{5} = 2\frac{2}{5}$

d) $\frac{43}{6} = 7\frac{1}{6}$
42

Reducing the final answer: divide both numerator and denominator by same common factor
ignore when reducing

denominator by same common factor
ignore when reducing

$$a) \frac{12 \div 2}{24 \div 2} = \frac{6 \div 6}{12 \div 6} = \frac{1}{2}$$

$$b) \frac{16 \div 2}{24 \div 2} = \frac{8 \div 2}{12 \div 2} = \frac{4 \div 2}{6 \div 2} = \frac{2}{3}$$

$$c) 3 \frac{7 \div 7}{21 \div 7} = 3 \frac{1}{3}$$

Solve :

$$a) \frac{4 \times 3}{5 \times 3} - \frac{1 \times 5}{3 \times 5} = \frac{12}{15} - \frac{5}{15} = \frac{7}{15}$$

$$b) \frac{2}{3} - \frac{7}{8}$$

LCD 3 6 9 12 15
5 10 15

$$\frac{5 \times 8}{3 \times 8} - \frac{7 \times 3}{8 \times 3} = \frac{40}{24} - \frac{21}{24} = \frac{19}{24}$$

LCD 3 6 9 12 15 18 21 24
8 16 24

$$c) 4 \frac{1}{2} + 1 \frac{5}{6}$$

$$\frac{9 \times 3}{2 \times 3} + \frac{11}{6}$$

$$\frac{27}{6} + \frac{11}{6} = \frac{38}{6} = 6 \frac{2}{6} = 6 \frac{1}{3}$$