

Fractions

MIXED NUMBER TO IMPROPER FRACTION

Multiply the whole number by the denominator and add the numerator to get the numerator of the improper fraction.

$$3\frac{2}{5} = \frac{3 \times 5 + 2}{5} = \frac{17}{5}$$

IMPROPER FRACTION TO MIXED NUMBER

Divide the numerator by the denominator to get the whole number part. The remainder is the numerator of the fraction.

$$\frac{23}{4} = 5\frac{3}{4}$$

ADDING AND SUBTRACTING FRACTIONS

* Change mixed numbers to improper fractions.

$$2\frac{1}{3} + 1\frac{3}{5}$$

* Find a common denominator.

$$\frac{7}{3} + \frac{8}{5}$$

* Add or subtract the numerators.

$$\frac{35}{15} + \frac{24}{15}$$

* Change back to a mixed number.

$$\frac{59}{15}$$

* Simplify fraction (if possible).

$$3\frac{14}{15}$$

MULTIPLYING FRACTIONS

* Change mixed numbers to improper fractions.

$$2\frac{1}{3} \times 1\frac{3}{5}$$

* Multiply numerators.

$$\frac{7}{3} \times \frac{8}{5}$$

* Multiply denominators.

$$\frac{56}{15}$$

* Change back to mixed number.

$$3\frac{11}{15}$$

* Simplify fraction (if possible).

DIVIDING FRACTIONS

* Change mixed numbers into improper fractions.

$$2\frac{1}{3} \div 1\frac{3}{5}$$

* Change sign to multiply AND turn SECOND fraction up-side-down.

$$\frac{7}{3} \div \frac{8}{5}$$

* Multiply (see rules above)

$$\frac{7}{3} \times \frac{5}{8}$$

$$\frac{35}{24}$$

$$1\frac{11}{24}$$

FractionsPractice

http://www.mathplayground.com/fractions_improper.html

Practice converting improper fractions to mixed numbers.

http://www.mathplayground.com/fractions_mixed.html

Practice converting mixed numbers to improper fractions.

http://www.cimt.plymouth.ac.uk/projects/mepres/book7/bk7i20/bk7_20i2.htm

Learn about adding and subtracting fractions and answer the questions.

http://www.cimt.plymouth.ac.uk/projects/mepres/book7/bk7i20/bk7_20i3.htm

Learn about multiplying fractions and answer the questions.

http://www.cimt.plymouth.ac.uk/projects/mepres/book7/bk7i20/bk7_20i4.htm

Learn about dividing fractions and answer the questions.

www.supermathsworld.com Ask your teacher for login details.

Select Number from the options.

Select Fractions 1 from the menu. Try the Easy, Medium and Hard levels.

Repeat for Fractions 2, 3 and 4.