Ordering three or more fractions

Maths

Mr Chan

Ordering three or more fractions

1. Here are some statements.

$$\frac{3}{5} < \frac{11}{15}$$

$$\frac{4}{5} < \frac{12}{15}$$

$$\frac{3}{5} > \frac{8}{15}$$

$$\frac{3}{5} < \frac{10}{15}$$

a) Which statement is incorrect?

b) What correction should be made?

2. Write the fractions in order from smallest to largest.

a) $\frac{2}{7}$ $\frac{6}{7}$ $\frac{3}{7}$

b) $\frac{3}{10}$ $\frac{9}{10}$ $\frac{1}{10}$ $\frac{7}{10}$

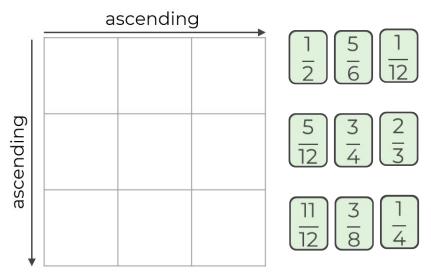c) $\frac{13}{15}$ $\frac{8}{15}$ $\frac{14}{15}$ $\frac{2}{15}$

d) $\frac{17}{20}$ $\frac{1}{20}$ $\frac{13}{20}$ $\frac{9}{20}$ $\frac{7}{20}$

Ordering three or more fractions

3. Write the fractions in order from smallest to largest.

a) $\dfrac{1}{3}$ $\dfrac{5}{6}$ $\dfrac{1}{6}$ $\dfrac{2}{3}$

b) $\dfrac{1}{3}$ $\dfrac{2}{5}$ $\dfrac{4}{15}$ $\dfrac{7}{15}$

c) $\dfrac{5}{6}$ $\dfrac{3}{4}$ $\dfrac{1}{3}$ $\dfrac{1}{6}$

d) $\dfrac{21}{40}$ $\dfrac{5}{8}$ $\dfrac{3}{4}$ $\dfrac{3}{5}$ $\dfrac{13}{20}$

4. Put all the fraction cards into the grid so that every row and column are in ascending order.

ascending

ascending

$\dfrac{1}{2}$ $\dfrac{5}{6}$ $\dfrac{1}{12}$

$\dfrac{5}{12}$ $\dfrac{3}{4}$ $\dfrac{2}{3}$

$\dfrac{11}{12}$ $\dfrac{3}{8}$ $\dfrac{1}{4}$

Answers

Ordering three or more fractions

1. Here are some statements.

$$\frac{3}{5} < \frac{11}{15}$$

$$\frac{4}{5} < \frac{12}{15}$$

$$\frac{3}{5} > \frac{8}{15}$$

$$\frac{3}{5} < \frac{10}{15}$$

a) Which statement is incorrect?

b) What correction should be made?

a) $$\frac{4}{5} < \frac{12}{15}$$

b) $$\frac{4}{5} = \frac{12}{15}$$

2. Write the fractions in order from smallest to largest.

a) $\frac{2}{7}$ $\frac{6}{7}$ $\frac{3}{7}$ $\frac{2}{7}$ $\frac{3}{7}$ $\frac{6}{7}$

b) $\frac{3}{10}$ $\frac{9}{10}$ $\frac{1}{10}$ $\frac{7}{10}$ $\frac{1}{10}$ $\frac{3}{10}$ $\frac{7}{10}$ $\frac{9}{10}$

c) $\frac{13}{15}$ $\frac{8}{15}$ $\frac{14}{15}$ $\frac{2}{15}$ $\frac{2}{15}$ $\frac{8}{15}$ $\frac{13}{15}$ $\frac{14}{15}$

d) $\frac{17}{20}$ $\frac{1}{20}$ $\frac{13}{20}$ $\frac{9}{20}$ $\frac{7}{20}$ $\frac{1}{20}$ $\frac{7}{20}$ $\frac{9}{20}$ $\frac{13}{20}$ $\frac{17}{20}$

Ordering three or more fractions

3. Write the fractions in order starting from smallest to largest.

a) $\frac{1}{3}$ $\frac{5}{6}$ $\frac{1}{6}$ $\frac{2}{3}$ $\frac{1}{6}$ $\frac{1}{3}$ $\frac{2}{3}$ $\frac{5}{6}$

b) $\frac{1}{3}$ $\frac{2}{5}$ $\frac{4}{15}$ $\frac{7}{15}$ $\frac{4}{15}$ $\frac{1}{3}$ $\frac{2}{5}$ $\frac{7}{15}$

c) $\frac{5}{6}$ $\frac{3}{4}$ $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{6}$ $\frac{1}{3}$ $\frac{3}{4}$ $\frac{5}{6}$

d) $\frac{21}{40}$ $\frac{5}{8}$ $\frac{3}{4}$ $\frac{3}{5}$ $\frac{13}{20}$ $\frac{21}{40}$ $\frac{3}{5}$ $\frac{5}{8}$ $\frac{13}{20}$ $\frac{3}{4}$

4. Put all the fraction cards into the grid so that every row and column are in ascending order.

ascending

ascending

$\frac{1}{12}$	$\frac{1}{4}$	$\frac{3}{8}$
$\frac{5}{12}$	$\frac{2}{3}$	$\frac{3}{4}$
$\frac{1}{2}$	$\frac{5}{6}$	$\frac{11}{12}$