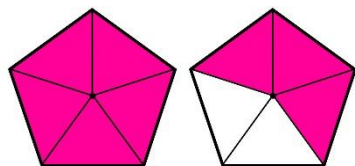
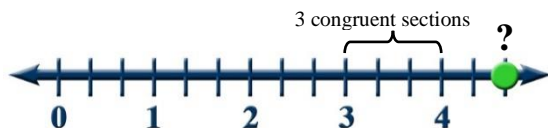


Check Your Answers on Fractions and Mixed Numbers!



A fraction is a ratio that compares the *part* to the *whole*. In the first figure, one whole, all 5 congruent (same shape, same size) sections are shaded. In the second figure, 3 sections are shaded out of 5. Count the number of fifths to produce the improper fraction (the numerator larger than the denominator) and mixed number.



Each segment between numbers is divided into 3 congruent parts, indicating thirds (the fraction's denominator must be 3).

1. $\frac{8}{5}, 1\frac{3}{5}$

2. $4\frac{2}{3}, \frac{14}{3}$

3. $4\frac{1}{2}, \frac{9}{2}$

4. $5\frac{1}{3}$

5. $\frac{11}{4}$

6. $4\frac{1}{5}$

7. $\frac{29}{6}$

8. $4\frac{3}{5} = \frac{23}{5}$

9. $\frac{13}{14}$

10. $\frac{4}{3}, \frac{11}{5}, \frac{13}{4}, \frac{19}{2}$ Change each improper fraction to a mixed number to order the values from smallest to largest. $\frac{4}{3} = 1\frac{1}{3}, \frac{11}{5} = 2\frac{1}{5}, \frac{13}{4} = 3\frac{1}{4}, \frac{19}{2} = 9\frac{1}{2}$

If Sally had 5 whole cookies and ate half of one cookie, there were 4 whole cookies remaining plus 1 half. If Sally had 5 whole cookies, then she had 10 halves. Because she ate one half, there were 9 halves remaining.

To change an improper fraction to a mixed number, divide the numerator (16) by the denominator (3) to produce a whole number (5) and a remainder (1) which becomes the numerator of the fractional part of the mixed number: $16 \div 3 = 5$ with remainder of 1 (numerator of fractional part of number); denominator remains the same (3).

To change a mixed number to an improper fraction, multiply the whole number (2) by the denominator (4) and add the numerator (3), placing that number over the given denominator (4): $2 \times 4 + 3 = 8 + 3 = 11$

Again, to change an improper fraction to a mixed number, divide the numerator (21) by the denominator (5) to produce a whole number (4) and a remainder (1) which becomes the numerator of the fractional part of the mixed number: $21 \div 5 = 4$ with remainder of 1 (numerator of fractional part of number); denominator remains the same (5).

Again, to change a mixed number to an improper fraction, multiply the whole number (4) by the denominator (6) and add the numerator (5), placing that number over the given denominator (6): $4 \times 6 + 5 = 24 + 5 = 29$

Change each improper fraction to a mixed number to determine if values are equal. $3\frac{4}{5}, \frac{18}{5} = 3\frac{3}{5}, \left(4\frac{3}{5}\right), \frac{21}{5} = 4\frac{1}{5}, 5\frac{3}{5} \left(\frac{23}{5}\right) = 4\frac{3}{5}$

It is possible to change each improper fraction to a mixed number to determine which value is the smallest. However, on inspection, there is one fraction that is less than 1 which is obviously the correct choice.

Perfect score? Yes! You've got this!! You're ready to move on to the next section!!!