

Fractions Conversion.

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Now you will change the look of the fractions. Put them on the number line and find the equivalent value as a **mixed number**.

Q1. Draw a number line from 0 to 5 for each set. Use the denominator to split the number line.

Set 1: (2)

$$\frac{3}{2} \quad \frac{5}{2} \quad \frac{1}{2} \quad \frac{2}{2} \quad \frac{6}{2}$$

Set 2: (2)

$$\frac{7}{2} \quad \frac{4}{2} \quad \frac{9}{2} \quad \frac{10}{2} \quad \frac{8}{2}$$

Set 3: (4)

$$\frac{9}{4} \quad \frac{15}{4} \quad \frac{11}{4} \quad \frac{2}{4} \quad \frac{6}{4}$$

Set 4: (4)

$$\frac{7}{4} \quad \frac{14}{4} \quad \frac{12}{4} \quad \frac{10}{4} \quad \frac{13}{4}$$

Set 5: (3)

$$\frac{8}{3} \quad \frac{12}{3} \quad \frac{11}{3} \quad \frac{2}{3} \quad \frac{6}{3}$$

Set 6: (3)

$$\frac{7}{3} \quad \frac{14}{3} \quad \frac{9}{3} \quad \frac{10}{3} \quad \frac{1}{3}$$

Set 7: (5)

$$\frac{7}{5} \quad \frac{11}{5} \quad \frac{10}{5} \quad \frac{17}{5} \quad \frac{13}{5}$$

Set 8: (5)

$$\frac{16}{5} \quad \frac{3}{5} \quad \frac{14}{5} \quad \frac{21}{5} \quad \frac{24}{5}$$

Q2. Let's try that the other way around. Take the mixed number and turn it into an improper fraction. For each set, draw a new number line from **0 to 5** and place the fraction numbers on that line.

Set 1: (4)

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

$$2 \frac{1}{4}$$

$$4$$

$$2 \frac{2}{4}$$

$$3 \frac{3}{4}$$

$$1 \frac{1}{4}$$

Set 2: (4)

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

$$4 \frac{1}{4}$$

$$2 \frac{2}{4}$$

$$1$$

$$2 \frac{1}{4}$$

$$0 \frac{3}{4}$$

Set 3: (3)

$$1 \frac{1}{3}$$

$$5$$

$$0 \frac{2}{3}$$

$$3 \frac{1}{3}$$

$$2 \frac{2}{3}$$

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

Q3. These sets require a number line between **1 and 10**.

Set 1: (2)

$$7 \frac{1}{2}$$

$$9$$

$$4 \frac{1}{2}$$

$$8 \frac{1}{2}$$

$$3$$

$$6 \frac{1}{2}$$

Set 2: (5)

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

$$8 \frac{1}{5}$$

$$3$$

$$7 \frac{2}{5}$$

$$4$$

$$2 \frac{4}{5}$$

Set 3: (6)

$$1$$

$$2 \frac{1}{6}$$

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

$$5$$

$$3 \frac{4}{6}$$

$$7 \frac{5}{6}$$

Q4. Let's use the number line again, this time to **add some fractions**. We'll make life easy to start with and stick with the same denominator. Express your answer as BOTH an improper fraction AND a mixed number.

a) $\frac{3}{2} + \frac{2}{2} =$

e) $\frac{1}{2} + \frac{6}{2} =$

i) $\frac{5}{2} + \frac{5}{2} =$

b) $\frac{5}{2} + \frac{1}{2} =$

f) $\frac{3}{2} + \frac{7}{2} =$

j) $\frac{6}{2} + \frac{7}{2} =$

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

g) $\frac{11}{2} + \frac{4}{2} =$

d) $\frac{1}{2} + \frac{4}{2} =$

h) $\frac{2}{2} + \frac{12}{2} =$

Q5. Look at the answers you got for Q4. What rule can you come up with that describes addition of fractions?

GOOD WORK.