

# Mixed Fraction

## 3.2 Comparing and Ordering Fractions and Decimals

Question: Three students are selling chocolate bars as a fund raiser for their school. The bars are packaged in cartons. Ardavan sold  $2\frac{2}{3}$  cartons, Isha sold  $\frac{5}{2}$  cartons and Daniel sold 2.25 cartons.


Who sold the most chocolate bars? How do you know?

**Ardavan**




$2\frac{2}{3}$

**Isha**



$\frac{5}{2} = 2\frac{1}{2}$

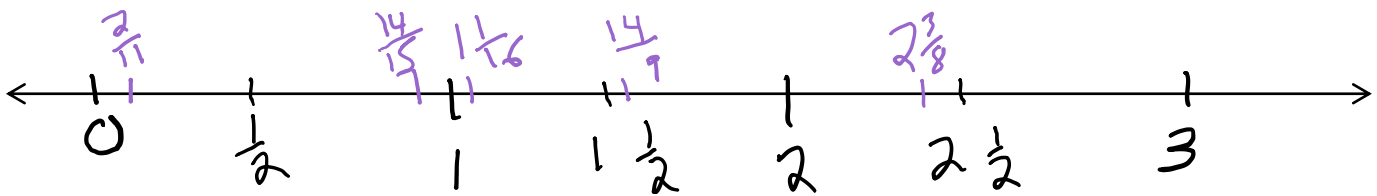
**Daniel**



$2.25 = 2\frac{25}{100} = 2\frac{1}{4}$

Any fraction greater than 1 can be written as a mixed number.

Use a number line to order the following numbers:  $\frac{2}{11}$ ,  $2\frac{3}{8}$ ,  $1\frac{1}{16}$ ,  $\frac{14}{9}$ ,  $\frac{14}{15}$



Example:

a) Write the following numbers in order from least to greatest:  $\frac{7}{8}$ ,  $\frac{9}{8}$ ,  $\frac{1}{4}$ , 0.75

$$\frac{1}{4} \times 2 = \frac{2}{8}$$

$$0.75 = \frac{75}{100} \div 25 = \frac{3}{4} \times 2 = \frac{6}{8}$$

same denominator

$\frac{2}{8}, \frac{6}{8}, \frac{7}{8}, \frac{9}{8}$

$\frac{1}{4}, 0.75, \frac{7}{8}, \frac{9}{8}$

b) Write a number between  $\frac{9}{8}$  and  $1\frac{1}{4}$ .

$$1\frac{1}{4} = \frac{5}{4} \times 2 = \frac{10}{8}$$

$$\frac{9}{8} \times 2 = \frac{18}{16}$$

$$\frac{10}{8} \times 2 = \frac{20}{16}$$

HW: p. 94

# 1, 3 a.c, 4 a.c, 5 a.c, 6, 7, 8 a.c, 9 a.c, 10, 11 2 days