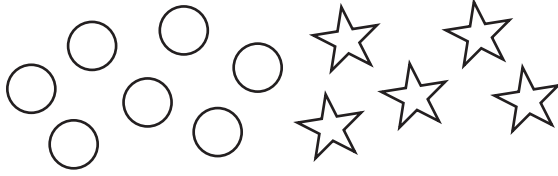


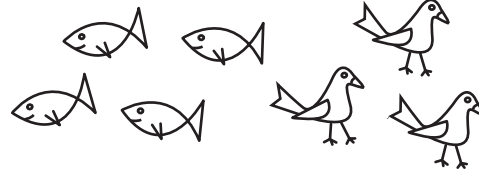
## Ratios & Rates

- 1** What is the ratio of circles to stars? Use the ratio symbol (:) in your answer.



7 : 5

- 2** What is the ratio of birds to fish? Use the ratio symbol (:) in your answer.



3 : 4

- 3** If there are 7 girls and 8 boys on the school's track team, what is the ratio of girls to boys? Write your answer in three different ways.

$\frac{7}{8}$       7 : 8      7 to 8

- 4** If a sports field is 100 meters long and 40 meters wide, what is the ratio of its width to its length? Write your answer in three different ways.

$\frac{40}{100}$       40 : 100      40 to 100

or, in simplified form

$\frac{4}{10}$       4 : 10      4 to 10

- 5** If a car travels 120 miles in 2 hours, what is its rate of speed expressed as a **unit rate**?

$$\frac{120 \text{ mi}}{2 \text{ hr}} = \frac{60 \text{ mi}}{1 \text{ hr}}$$

$$120 \div 2 = 60$$

- 6** If a plane travels 900 km in 3 hours, what is its rate of speed expressed as a **unit rate**?

$$\frac{900 \text{ km}}{3 \text{ hr}} = \frac{300 \text{ km}}{1 \text{ hr}}$$

$$900 \div 3 = 300$$

- 7** Tim has a job that pays \$50 for 5 hours of work. Jane has a job that pays \$24 for 2 hours of work. Who has the higher rate of pay? (Hint: convert to unit rates)

$$\frac{50}{5} = \frac{10}{1}$$

\$10/hr

$$\frac{24}{2} = \frac{12}{1}$$

\$12/hr

Jane's rate of pay is higher.

- 8** Jon can do 64 push-ups in 4 minutes. Paul can do 45 push-ups in 3 minutes. Whose rate is faster? (Hint: convert to unit rates)

$$\frac{64}{4} = \frac{16}{1}$$

16 push-ups/min

$$\frac{45}{3} = \frac{15}{1}$$

15 push-ups/min

Jon's rate is faster.

