

A RATIO IS A COMPARISON OF TWO QUANTITIES OR NUMBERS. IF WE HAVE 8 PENCILS AND 10 BOOKS, WE CAN WRITE A RATIO TO COMPARE THEM. BELOW ARE DIFFERENT WAYS TO WRITE A RATIO:

8:10 OR 8 to 10 OR $\frac{8}{10}$

ALL OF THESE RATIOS ARE TELLING US THAT WE HAVE 8 PENCILS TO EVERY 10 BOOKS, BUT LIKE A FRACTION A RATIO CAN BE SIMPLIFIED. THIS RATIO CAN BE DIVIDED BY 2. JUST REMEMBER, LIKE A FRACTION WHATEVER YOU DO TO ONE NUMBER YOU HAVE TO DO TO THE OTHER.

4:5 OR 4 to 5 OR $\frac{4}{5}$ *DIVIDED BOTH NUMBERS BY 2.*

Now your turn. Write each ratio three different ways. Make sure all ratios are in simplest form.

Helpful example

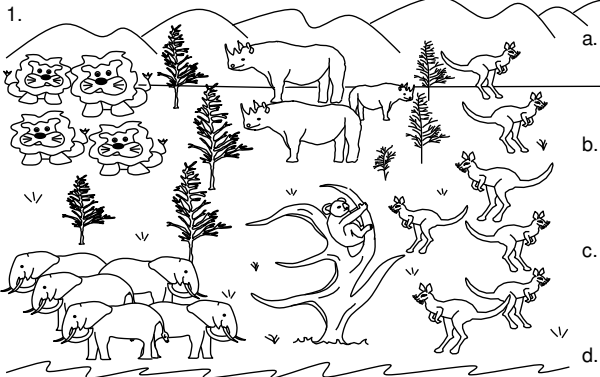


HELP: THERE ARE 3 TRIANGLES, 5 SQUARES, AND 8 CIRCLES, WHICH MAKES A TOTAL OF 16 SHAPES.

What is the ratio of circles to total number of shapes?

$\frac{8 \text{ circles}}{16 \text{ total}}$ **1:2** OR **1 to 2** OR $\frac{1}{2}$

DIVIDE BOTH NUMBERS BY 8.

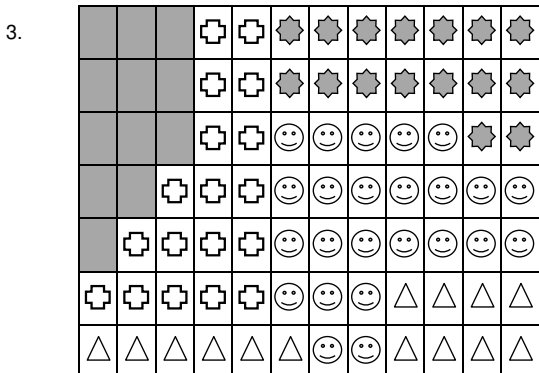


1.
 - a. What is the ratio of kangaroos to elephants?
7:5 OR **7 to 5** OR $\frac{7}{5}$
 - b. What is the ratio of lions to total number of animals?
1:5 OR **1 to 5** OR $\frac{1}{5}$
 - c. What is the ratio of rhinoceroses to koala bears?
3:1 OR **3 to 1** OR $\frac{3}{1}$
 - d. What is the ratio of total number of animals to elephants?
4:1 OR **4 to 1** OR $\frac{4}{1}$

2. SCORERS ON KING'S HOCKEY TEAM

Henry	8 goals
Skipper	5 goals
Boshula	7 goals
Becky	12 goals
Other Players	8 goals

- a. What is the ratio of Skipper's goals to total goals?
1:8 OR **1 to 8** OR $\frac{1}{8}$
- b. What is the ratio of goals scored by Becky to Boshula?
12:7 OR **12 to 7** OR $\frac{12}{7}$
- c. What is the ratio of goals by Other Players to Henry?
1:1 OR **1 to 1** OR $\frac{1}{1}$



- a. What is the ratio of to ?
2:3 OR **2 to 3** OR $\frac{2}{3}$
- b. What is the ratio of to total rectangles?
1:7 OR **1 to 7** OR $\frac{1}{7}$
- c. What is the ratio of to ?
9:7 OR **9 to 7** OR $\frac{9}{7}$
- d. What is the ratio of total rectangles to ?
7:2 OR **7 to 2** OR $\frac{7}{2}$