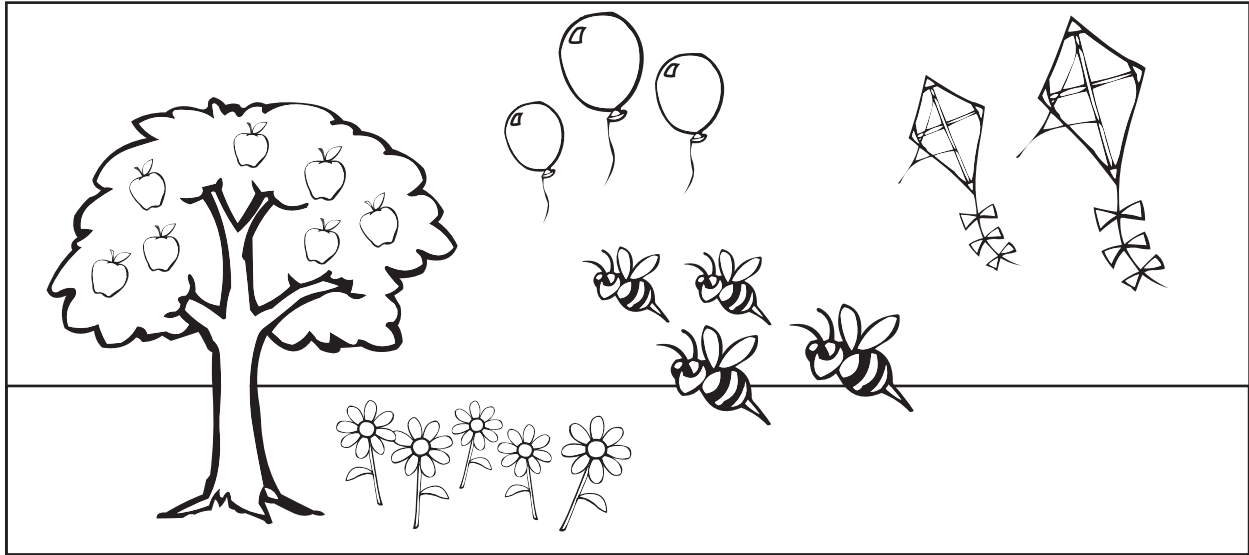


What Ratio Is It?

RR 1

Instructions: Below you will be asked to find the ratios between various objects in this diagram.



What is the ratio of...

1 Bees to Balloons?

4 : 3 or $\frac{4}{3}$

2 Flowers to Apples?

3 Trees to Flowers?

4 Bees to Flowers?

5 Kites to Bees?

6 Balloons to Trees?

7 Kites to Apples?

8 Apples to Bees?

9 Trees to Apples?

10 Kites to Balloons?

Converting to a Unit Rate

RR 2

Instructions: Convert each of these rates into a unit rate by dividing the top number by the bottom number. Don't forget the units!

1 $\frac{120 \text{ miles}}{6 \text{ hours}} = \frac{20 \text{ miles}}{1 \text{ hour}}$

$120 \div 6 = 20$

2 $\frac{36 \text{ push-ups}}{2 \text{ minutes}}$

3 $\frac{45 \text{ dollars}}{3 \text{ hours}}$

4 $\frac{250 \text{ km}}{5 \text{ hours}}$

5 $\frac{180 \text{ cakes}}{6 \text{ days}}$

6 $\frac{24 \text{ games}}{12 \text{ days}}$

7 $\frac{100 \text{ meters}}{10 \text{ second}}$

8 $\frac{18 \text{ apples}}{9 \text{ days}}$

9 $\frac{25 \text{ km}}{10 \text{ hours}}$

10 $\frac{15 \text{ pies}}{2 \text{ days}}$

Using Unit Rates to Compare

RR 3

Instructions: Use unit rates to solve the following word problems.

- 1** Tom and Paul are building a brick wall. Tom lays 420 bricks in 6 hours. Paul lays 240 bricks in 3 hours. Whose rate is faster?

$$\begin{array}{cc} \text{Tom's Rate} & \text{Paul's Rate} \\ \frac{420}{6} = \frac{70}{1} \text{ bricks} & \frac{240}{3} = \frac{80}{1} \text{ bricks} \\ \text{hour} & \text{hour} \end{array}$$

$70 < 80$ so
Paul's rate is faster.

- 2** Kim and Ben are planting a garden. Kim plants 24 flowers in 2 hours. Ben plants 33 flowers in 3 hours. Whose rate is faster?

- 3** Ann's Bakery bakes 450 loaves of bread in 3 days. Mark's Bakery bakes 560 loaves of bread in 4 days. Which bakery bakes bread at the faster rate?

- 4** Dave and Eric are painting a long fence. Dave paints 125 feet of the fence in 5 hours. Eric paints 175 feet in 7 hours. Whose rate is faster?

- 5** A bear can run 400 feet in 8 seconds. A horse can run 290 feet in 5 seconds? Which animal runs at the faster rate?

- 6** Sam earned \$380 working for 8 hours. Rich earned \$195 working for 4 hours. Who has the higher rate of pay?