

USE A TIMER ON YOUR PHONE

PARTNER A: Take your pulse. Count the number of heart beats in 20 seconds.

PARTNER B: Take your pulse. Count the number of heart beats in 30 seconds.

Who has the faster heart rate? How do you know?

$$\frac{37 \times 3}{20 \times 3}$$

$$\frac{57 \times 2}{30 \times 2}$$

$$\frac{37}{20}$$

$$\frac{111}{60}$$

$$\frac{114}{60}$$

• We need 5 sandwiches for every 2 people.

• ~~Each person gets \$1.19 for~~

• Gina earns \$4.75 per hour for baby-sitting.

• There are 500 sheets on one roll of paper towels.

EXPRESS EACH OF THE ABOVE SITUATIONS AS A RATIO

Unit Rate
means change
one of the
#'s to 1

→ unit rates already

→ Ratio 5:2

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

Unit Rate $\frac{2.5}{1}$

2.5 sandwiches per person

Example 1

A printing press prints 120 sheets in 3 min.

- Express the printing as a unit rate.
- How many sheets are printed in 1 h?

$$120 : 3$$
$$\frac{120}{3} \div 3$$
$$3 \div 3$$

$$\frac{40}{1} \times 60$$
$$1 \times 60$$

$$\frac{2400}{60}$$

Example 2

Use the data in *Example 1*.

How long will it take to print 1000 sheets?

$$\frac{120}{3} \div 120$$
$$3 \div 120$$

$$\frac{1}{0.025} \times 1000$$
$$0.025 \times 1000$$

$$\frac{1000}{25}$$

$$25 \text{ min}$$

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