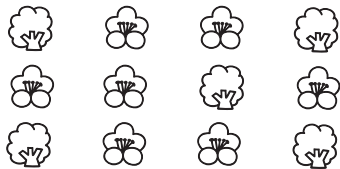




## • ratios and rates

### A. Write the ratios.

1.



a. to = \_\_\_\_\_

b. to all = \_\_\_\_\_

2.

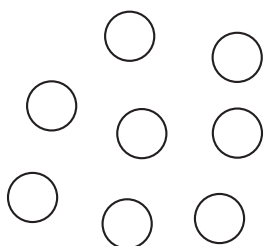
A	K	5	5	A
K	5	K	A	A
A	K	5	K	A

a. A to K = \_\_\_\_\_

b. K to 5 = \_\_\_\_\_

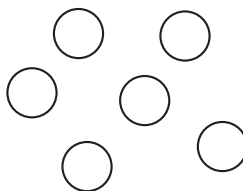
### B. Draw on the circles to show each ratio.

1.



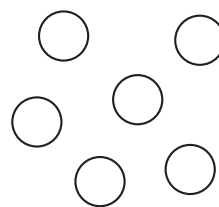
to = 2:6

2.



to all = 5:6

3.



to all = 1:3

### C. Write two equivalent ratios for each.

1. 2:3 \_\_\_\_\_

2. 6:8 \_\_\_\_\_

3. 7:2 \_\_\_\_\_

4. 10:2 \_\_\_\_\_

5. 1:4 \_\_\_\_\_

6. 2:5 \_\_\_\_\_

7. 5:9 \_\_\_\_\_

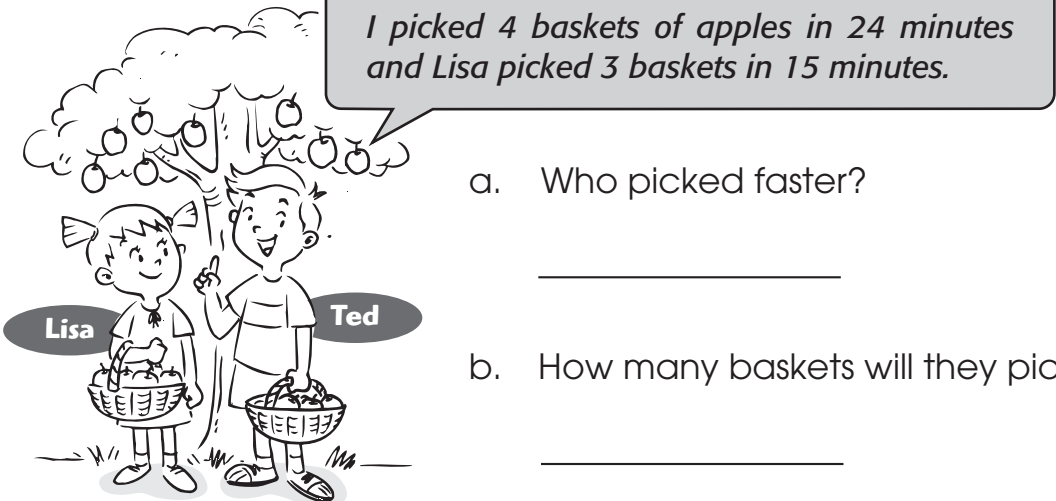
8. 12:24 \_\_\_\_\_

**D. Write the amounts as rates.**

1. Kelvin drinks 8 cups of water a day. \_\_\_\_\_
2. There are 18 eggs in one carton. \_\_\_\_\_
3. Lucy runs 3 laps per minute. \_\_\_\_\_
4. Each basket has 35 apples. \_\_\_\_\_

**E. Find the answers.**

1. **The rate is 55 candies/jar.**
  - a. How many candies are there in 3 jars? \_\_\_\_\_
  - b. How many jars are needed for 220 candies? \_\_\_\_\_
2. **A machine produces 270 erasers in 3 minutes.**
  - a. What is the rate? \_\_\_\_\_
  - b. How long will it take to produce 900 erasers? \_\_\_\_\_

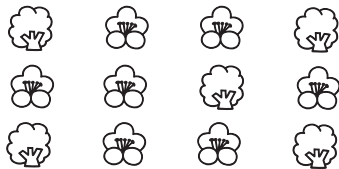
3. 
  - a. Who picked faster?  
\_\_\_\_\_
  - b. How many baskets will they pick in 2 hours?  
\_\_\_\_\_



• ratios and rates

**A. Write the ratios.**

1.



a. to = 5:7

b. to all = 7:12

2.

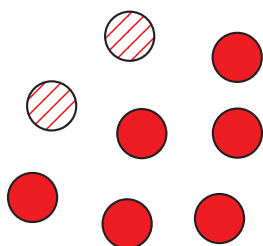
A K 5 5 A  
K 5 K A A  
A K 5 K A

a. A to K = 6:5

b. K to 5 = 5:4

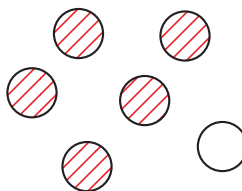
**B. Draw on the circles to show each ratio.**

1.



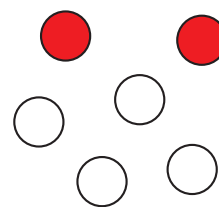
to = 2:6

2.



to all = 5:6

3.



to all = 1:3

**C. Write two equivalent ratios for each.**

(Suggested answers)

1. 2:3 4:6 8:12

2. 6:8 3:4 12:16

3. 7:2 14:4 28:8

4. 10:2 5:1 15:3

5. 1:4 2:8 4:16

6. 2:5 4:10 6:15

7. 5:9 10:18 25:45

8. 12:24 3:6 18:36



**D. Write the amounts as rates.**

1. Kelvin drinks 8 cups of water a day.

8 cups/day

2. There are 18 eggs in one carton.

18 eggs/carton

3. Lucy runs 3 laps per minute.

3 laps/min

4. Each basket has 35 apples.

35 apples/basket

**E. Find the answers.**

1. **The rate is 55 candies/jar.**

a. How many candies are there in 3 jars?

165 candies

b. How many jars are needed for 220 candies?

4 jars

2. **A machine produces 270 erasers in 3 minutes.**

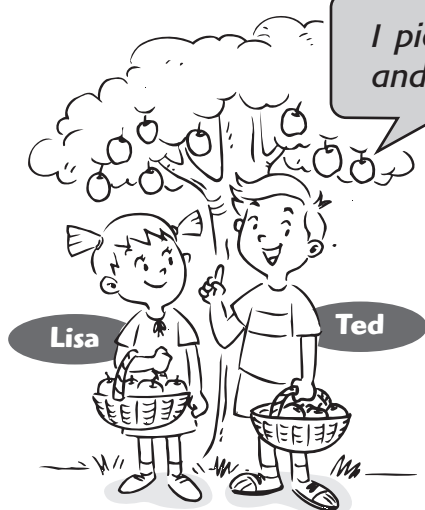
a. What is the rate?

90 erasers/min

b. How long will it take to produce 900 erasers?

10 mins

3.



*I picked 4 baskets of apples in 24 minutes and Lisa picked 3 baskets in 15 minutes.*

a. Who picked faster?

Lisa

b. How many baskets will they pick in 2 hours?

44 baskets