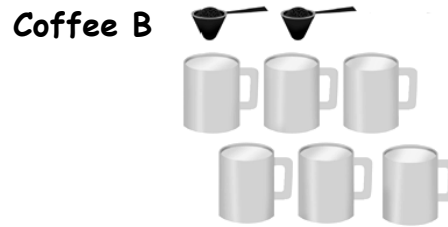
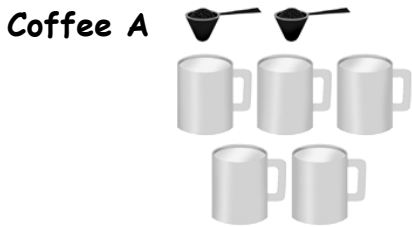


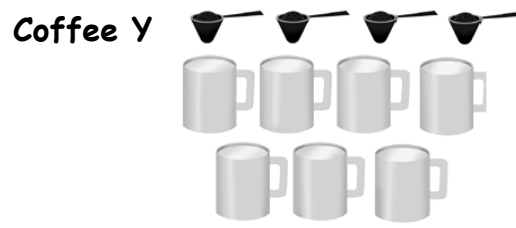
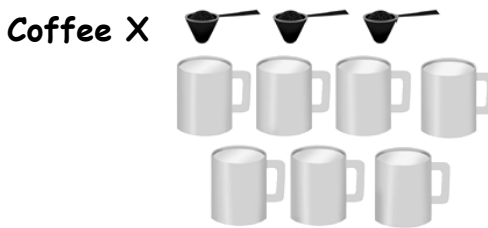
Compare Ratios for Decision Making

Equivalent Ratios can be used to compare ratios to find out whether a compared component in one ratio is higher, lower or the same as the corresponding component in the other ratio.

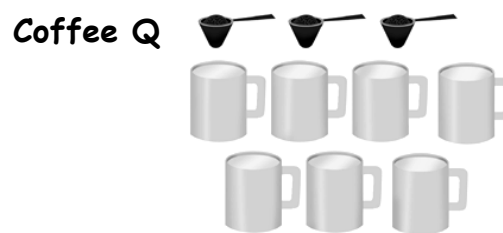
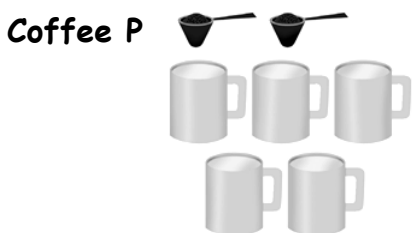
1. Coffee is made by mixing scoops of coffee powder with cups of hot water.



Which coffee is stronger? How do you know?

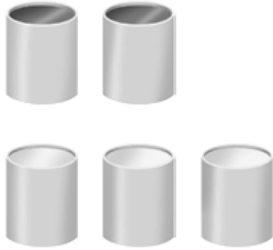


Which coffee is stronger? How do you know?

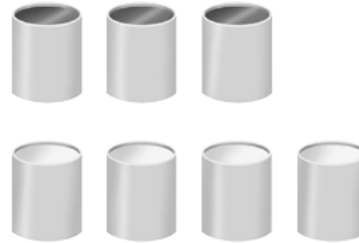


Which coffee is stronger? How do you know?

2. Recipe A for punch calls for 2 cans of concentrate and 3 cans of water.



Recipe B for punch calls for 3 cans of concentrate and 4 cans of water.



Which recipe gives a stronger punch? Justify your answer.

3. Compare the Strawberry Punch in each pair of pitchers. Which has the stronger strawberry taste? Justify your answer.

(a)

Two pitchers are shown side-by-side. Pitcher A contains 1 part concentrate and 2 parts water. Pitcher B contains 5 parts concentrate and 8 parts water. Each pitcher has a strawberry icon with its letter (A or B) on it.

- Pitcher A: 1 part concentrate, 2 parts water
- Pitcher B: 5 parts concentrate, 8 parts water

(b)

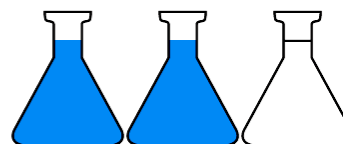
Two pitchers are shown side-by-side. Pitcher A contains 2 parts concentrate and 3 parts water. Pitcher B contains 5 parts concentrate and 6 parts water. Each pitcher has a strawberry icon with its letter (A or B) on it.

- Pitcher A: 2 parts concentrate, 3 parts water
- Pitcher B: 5 parts concentrate, 6 parts water

4. Beakers of blue and clear liquids are combined.



Set A



Set B

(a) Which set produce the bluer liquid? Justify your answer.

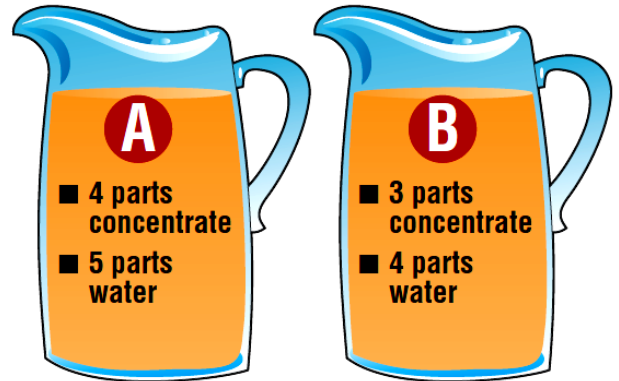
(b) Sketch a different set of beakers that would produce the same shade of blue as Set A.

(c) How do you make sure your set of beakers would produce the same shade of blue as Set A?

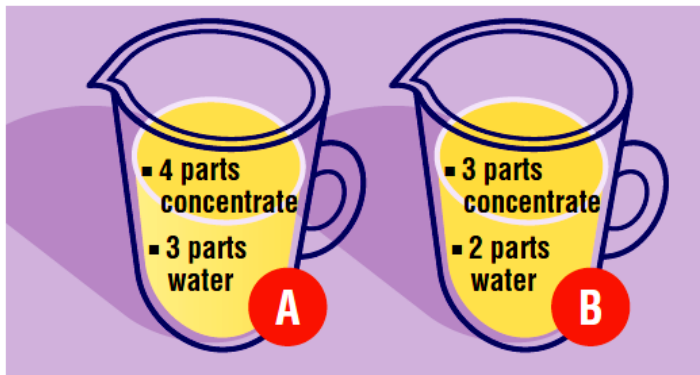
(d) Sketch a different set of beakers that would produce the same shade of blue as Set B.

(e) How do you make sure your set of beakers would produce the same shade of blue as Set A?

5. Orange juice is made with concentrate and water. Which mix is stronger? Justify your answer.



6. Lemonade is made with water and concentrate.



- (a) Which pitcher has the stronger lemonade? Justify your answer.

- (b) Describe the contents of a different pitcher that has the same strength of lemonade as Pitcher B.