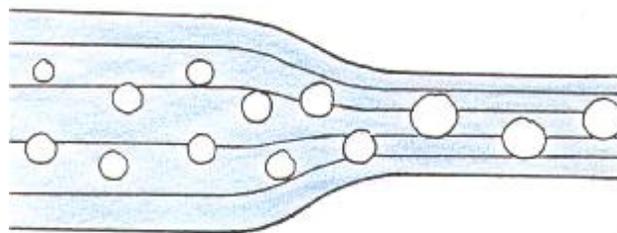


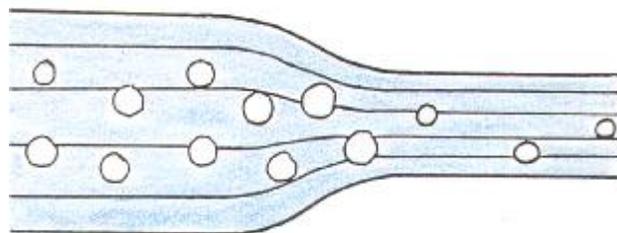
NEXT-TIME QUESTION

Water with air bubbles flows through a pipe that gets narrower. In the narrow region the water gains speed and the bubbles are

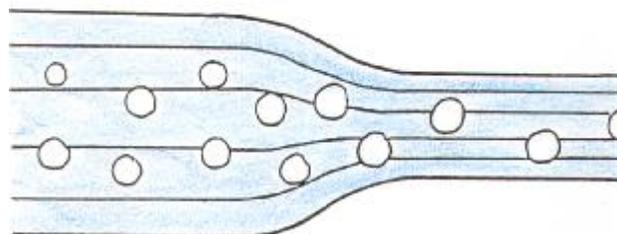
a) larger.



b) smaller.



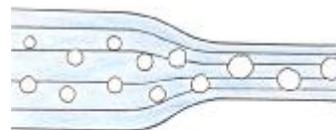
c) the same size.



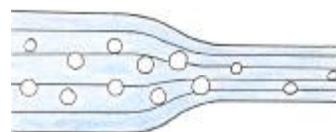
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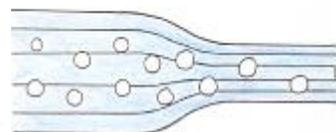
a) larger.



b) smaller.



c) the same size.



Answer: a, larger

As water gains speed, pressure in the water decreases, in accord with Bernoulli's principle. Decreased water pressure squeezes less on air bubbles, allowing them to expand—so that air pressure and surrounding water pressure match. If the flowing water continues its flow into a wider section of pipe, speed decreases, pressure increases, and the bubbles become smaller.