SAT MATH CHALLENGE

Franklin bought several kites, each costing 16 dollars. Richard purchased several different kites, each costing 20 dollars. If the ratio of the number of kites Franklin purchased to the number of kites Richard purchased was 3 to 2, what was the average cost of each kite they purchased?

A: $16.80
B: $17.20
C: $17.60
D: $18.00

Question 1 Explanation:

The correct answer is (C).

For every 5 kites purchased by Franklin and Richard, 3 of the kites are Franklin's and 2 of the kites are Richard's. We can set up an equation to find the total money spent:

Total money spent for every 5 kites: $3(16) + 2(20) = 88$

To find the average cost per kite, we can simply divide 88 by 5:

$88 \div 5 = 17.6$