

Question Paper

Topic 1: Algebra

Q1. If the cost of x apples is \$20, what is the cost of 4 apples?

- \$5
- \$10
- \$15
- \$20

Answer: \$10

Explanation: If x apples cost \$20, then 1 apple costs $\$20/x$. Therefore, 4 apples would cost $4 * \$20/x = \$80/x$. Substituting $x = 4$, we get $\$80/4 = \20 .

Q2. If 3 pens and 4 books cost \$35, and 2 pens and 5 books cost \$30, what is the cost of 1 pen?

- \$5
- \$7
- \$8
- \$10

Answer: \$5

Explanation: Let the cost of 1 pen be x and the cost of 1 book be y . From the given information, we can form the equations: $3x + 4y = \$35$ and $2x + 5y = \$30$. Solving these equations simultaneously, we find $x = \$5$.