Question Paper

Topic 1: Algebra

Q1. In a real-life scenario, if you have 3 times the number of apples as oranges, and the total number of fruits is 20, how many apples do you have?
5 apples
10 apples
15 apples
18 apples
Answer: 15 apples
Explanation: Let the number of oranges be x. Then the number of apples = 3x. Given that the total number of fruits is 20, we have x + 3x = 20. Solving, we get x = 5 and 3x = 15. Therefore, you have 15 apples.

Q2. If the cost of 2 pens and 3 pencils is $12, and the cost of 4 pens and 6 pencils is $24, what is the cost of each pen?
$2
$3
$4
$5
Answer: $4
Explanation: Let the cost of a pen be x and the cost of a pencil be y. From the given information, we have 2x + 3y = 12 and 4x + 6y = 24. Solving these equations, we get x = $4. Therefore, each pen costs $4.