SMART EXAM RESOURCES STAGE 7 MATHS DIRECT- PROPORTION

1 The cost of 3 kg of apples is \$12. What is the cost of 5 kg of apples if the cost is f . ,ropo. directly proportional to the weight?

Solution 1:

Since cost and weight are **directly proportional**, we set up:

 $12 \div 3 = x \div 5$

 $x = (12 \times 5) \div 3 = 20$

Cost = **\$20**

Mun Smarteramicsources.com 2 If 8 machines can produce 480 units in 6 hours, how many units will 5 machines produce in the same time?

Solution 2

Machines and units produced are **directly proportional**:

 $480 \div 8 = x \div 5$

 $x = (480 \times 5) \div 8 = 300$ units