SMART EXAM RESOURCES STAGE 7 MATHEMATICS TOPIC QUESTIONS TOPIC: DIRECT PROPORTION SET-2

1. A car consumes 8 liters of fuel to travel 100 km. How much fuel will it need to travel 250 km?

Smart Exam Resources

Solution 1:

Fuel consumption is **directly proportional** to distance:

 $8 \div 100 = x \div 250$

x = (8 × 250) ÷ 100 = 20 liters * H K. Smartetamicsources. Com 2. A factory produces 1500 toys in 10 days. How many days will it take to produce

Solution 2:

Production and time are **directly proportional**:

 $1500 \div 10 = 4500 \div x$

 $x = (4500 \times 10) \div 1500 = 30$ days * Ky r. Smarte tamies ources on hum Smarte tampes our ces com 3 The speed of a rotating wheel is directly proportional to the applied torque. If the

Solution 3:

Speed and torque are **directly proportional**:

 $120 \div 30 = x \div 50$

x = (120 × 50) ÷ 30 = 200 rpm s K.S.Martekanie Southe Southe South x