

- 3 A toy car moves up a slope at a constant speed, as shown. The car is moved by a motor with a power output of 5.2 W . The car gains a gravitational potential energy of 0.40 J in a time of 1.1 s .

Which of the following expressions gives the work done, in J, against resistive forces?

- ☐ **A** $5.2 - (0.40 \times 1.1)$
- ☐ **B** $(5.2 \times 1.1) - 0.40$
- ☐ **C** $(5.2 \div 1.1) + 0.40$
- ☐ **D** $(5.2 \times 1.1) + 0.40$

(Total for Question 3 = 1 mark)