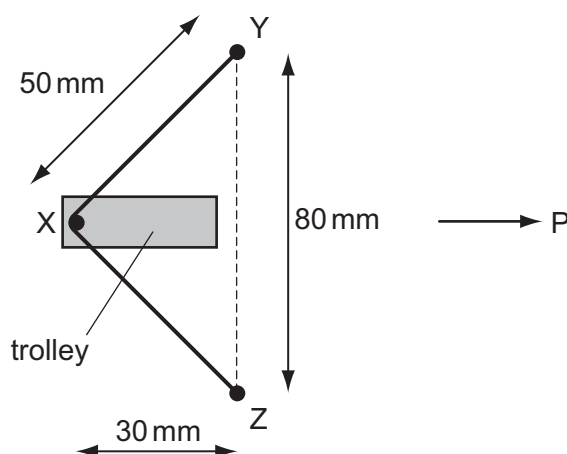


- 17 The diagram shows two fixed pins, Y and Z. A length of elastic is stretched between Y and Z and around pin X, which is attached to a trolley.



X is at the centre of the elastic and the trolley is to be propelled in the direction P at right angles to YZ. The tension in the elastic is 4 N.

What is the force accelerating the trolley in the direction P when the trolley is released?

- A** 2.4 N      **B** 3.2 N      **C** 4.8 N      **D** 6.4 N

- 18 An electric motor produces 120 W of useful mechanical output power. The efficiency of the motor is 60 %.

Which row is correct?

	electrical power input/W	waste heat power output/W
<b>A</b>	72	48
<b>B</b>	192	72
<b>C</b>	200	72
<b>D</b>	200	80

**Space for working**