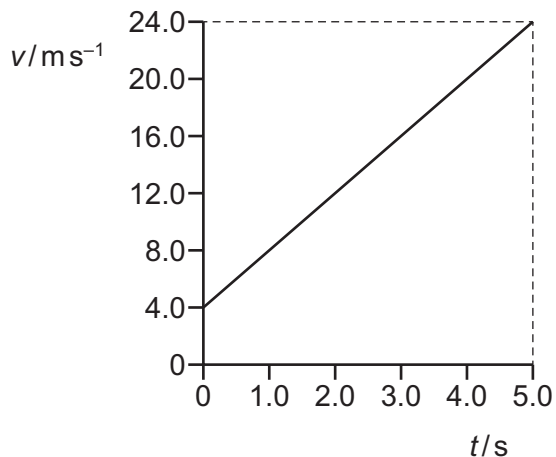


7 The graph shows the variation of velocity v with time t for an object.



The object passes a fixed point at time $t = 0$.

What is the displacement of the object from the fixed point at time $t = 5.0\text{ s}$ and what is the acceleration of the object?

| | displacement /m | acceleration / ms^{-2} |
|----------|--------------------|------------------------------------|
| A | 60 | 4.0 |
| B | 70 | 4.0 |
| C | 60 | 4.8 |
| D | 70 | 4.8 |