

a)



b)



c)



d)



a) First measure the length of the path.

$$\begin{aligned} d &= 1 + 1 + 1.5 + 2 + 1.5 + 1 + 1 + 2.5 + 1.5 + 1.5 + 1 + 2.5 + 1.5 + 1 + 1 + 1.5 \\ &= 23 \end{aligned}$$

Since the scale is $1 \text{ cm} : 3 \text{ m}$, the actual distance is 23×3 or 69 m .

The displacement is represented by a vector from the start (tail) of the first vector to the end (head) of the last vector. This measures 5 cm in length. Therefore, the actual displacement is 15 m to the right.

b) The distance and the displacement are different. The distance represents the total distance travelled, 69 m . The displacement represents the straight line distance between the initial and final positions, 15 m . Also, the displacement, a vector quantity, has a direction implied while the distance has no direction since it is a scalar quantity.

Mhr Vectors 12 Solutions Manual

**Ferdinand Pierre Beer, Elwood Russell
Johnston**



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