

Name: _____

WORKSHEET**Representing vectors**

- 1 Use a ruler and protractor to represent the following displacements on the same set of axes.
 - a 1 cm east
 - b 4 cm south
 - c 3 cm west
 - d 2 cm north
 - e 5 cm north-west
 - f 5 cm south-east
 - g 3.5 cm north-east
 - h 2.5 cm south-west

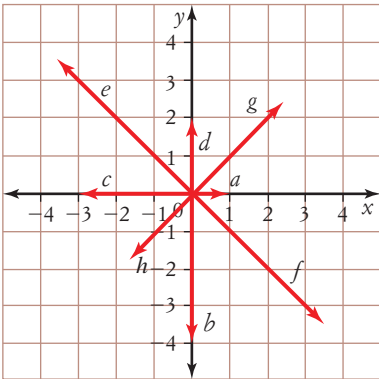
- 2 Use a ruler and protractor to represent the following displacements on the same set of axes.
 - a 3 cm east
 - b 7 cm NW
 - c 1 cm SE
 - d 5.5 cm SSW
 - e 3.5 cm ENE
 - f 4 cm WNW
 - g 5 cm NNE
 - h 4.5 cm SSE
 - i 2.5 cm WSW
 - j 4 cm NE
 - k 4.5 cm ESE
 - l 3.5 cm SW
 - m 5 cm NNW
 - n 3.5 cm west

3 Draw the following distances and bearings as position vectors on the same set of axes.

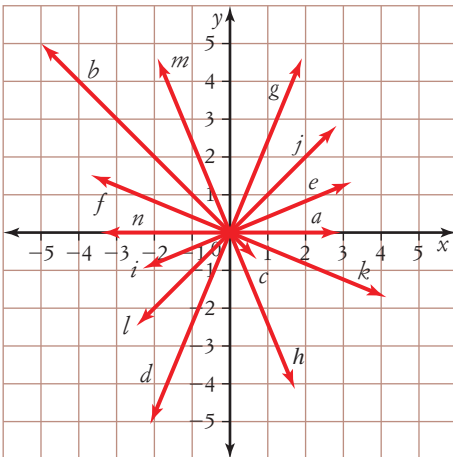
- a 8 km $N0^\circ W$
- b 10 km $N10^\circ E$
- c 6 km $N90^\circ W$
- d 4 km $N65^\circ W$
- e 7 km $S75^\circ W$
- f 5.6 km $S53^\circ E$
- g 9.4 km $N81^\circ E$
- h 10.4 km $S7^\circ W$
- i 6.8 km $S15^\circ E$
- j 4.6 km $S38^\circ W$
- k 8.2 km $N35^\circ E$
- l 7.2 km $S87^\circ E$
- m 3.8 km $N17^\circ W$
- n 2.8 km $S59^\circ W$
- o 9.4 km $N80^\circ W$
- p 9.2 km $N61^\circ E$

Answers

1 1 unit : 1 cm



2 1 unit : 1 cm



3 1 unit : 2 km

