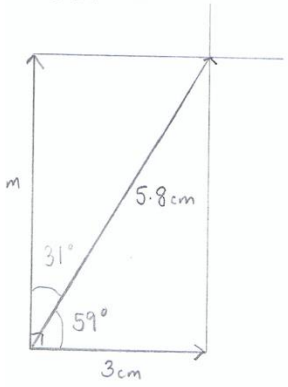
Resultant Vectors Scale Drawing Mark Scheme

15m East
25 m North

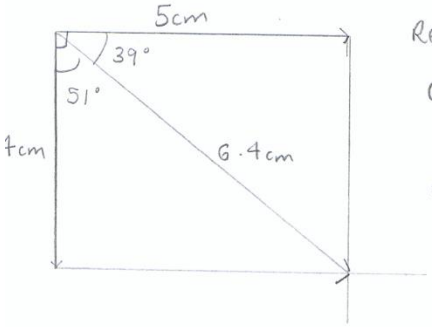
1cm = 5m



Resultant:
5·8 cm
= 29 m
at 31° East of North
/from North
or 59° North of East
/from East

100 N right
80 N down

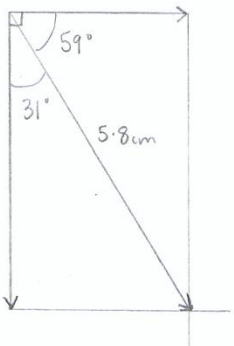
1cm = 20 N



Resultant:
6·4 cm
= 128 N
at 39° below horizontal
or 51° from vertical

100 km South
60 km East

1cm = 20 km



Resultant:
5·8 cm
= 116 km
at 31° East of South
/from South
or 59° South of East
/from East

4. Vertical:

12 N up − 3N down

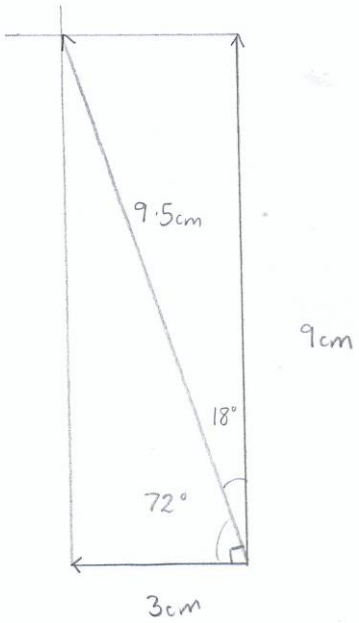
= 9 N up

Horizontal:

9N left − 6N right

= 3N left

9N up
3N left 1cm = 1 N



Resultant:

9.5 cm
= 9.5 N

at 18° from vertical
or 72° from horizontal

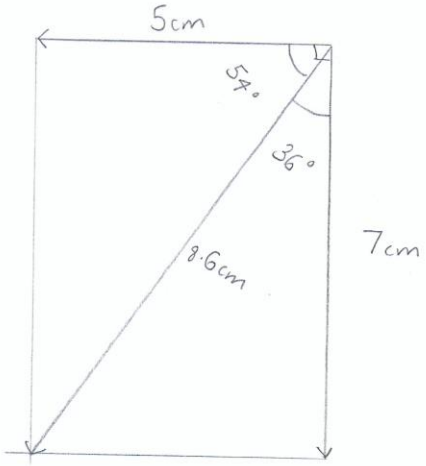
5. North/South:

100m South − 30 m North
= 70 m South

East / West

50 m West

70 m South
50 m West 1cm = 10 m



Resultant:

8.6 cm
= 86 m

at 36° West of South
/from South

or 54° South of West
/from West