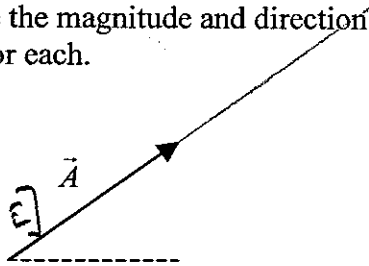
Key

Physics 30s **Vectors Worksheet #1**

Determine the magnitude and direction of each of the following vectors. Write the vector notation for each.

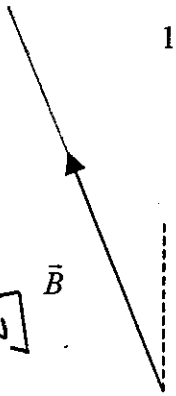
1.



82 m/s [35° N of E]

1 cm = 30 m/s

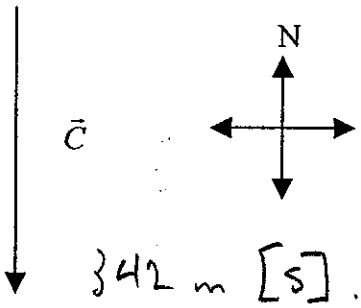
2.



51 N [22° W of N]

1 cm = 15 N

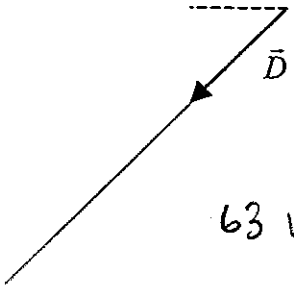
3.



1 cm = 90 m

342 m [S]

4.



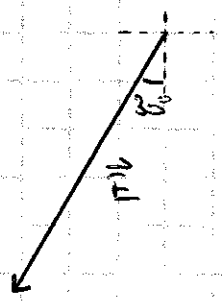
1 cm = 35 km/h

63 km/h [SW]

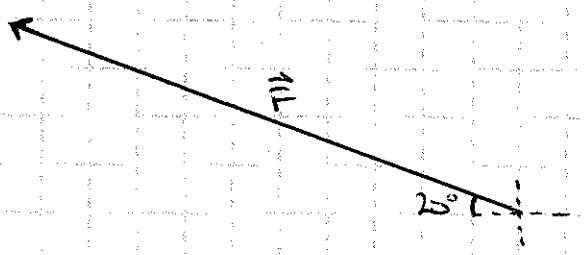
Draw and label a scale diagram representing each of the following vectors.

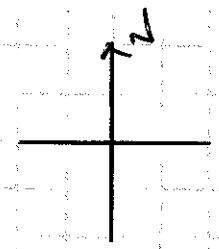
5. $\vec{E} = 40\ N$ [30° W of S]
6. $\vec{F} = 145\ cm$ [20° N of W]
7. $\vec{G} = 300\ Kg \cdot m/s^2$ [15° S of E]
8. $\vec{H} = 240\ m/s$ [85° N of E]
9. $\vec{I} = 19\ km/h$ [SW]
10. $\vec{J} = 106\ N$ [60° W of N]

5. 1 cm = 10 N

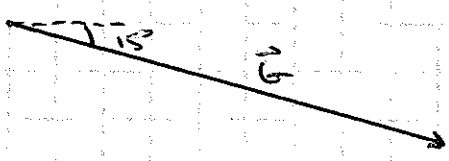


6. 1 cm = 20 cm

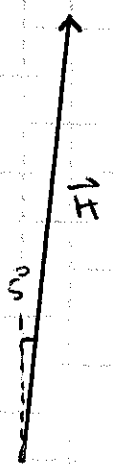




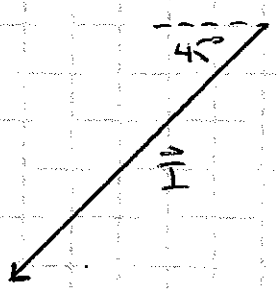
7. 1 cm = 50 Kg·m/s²



8. 1 cm = 40 m/s



9. 1 cm = 4 Km/h



10. 1 cm = 15 N