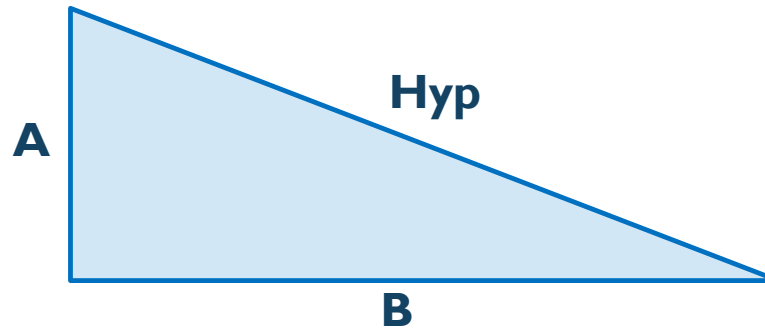
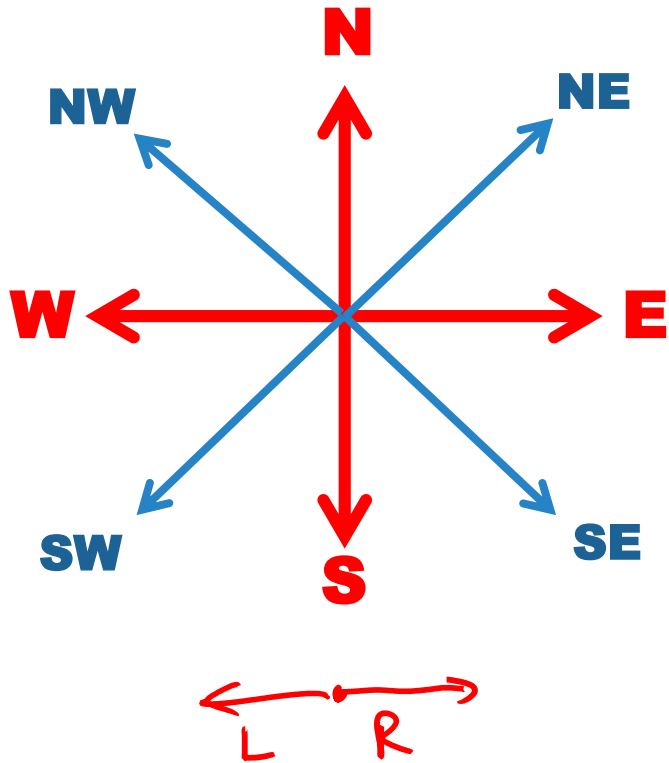
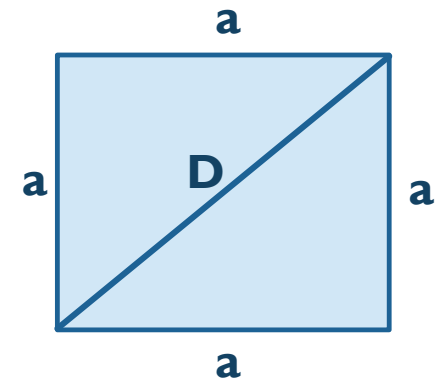

DIRECTIONS

- KOUSTAV

CONCEPT



$$Hyp = \sqrt{A^2 + B^2}$$



$$D = \sqrt{a^2 + a^2}$$
$$= \sqrt{2a^2}$$

$$D = a\sqrt{2}$$

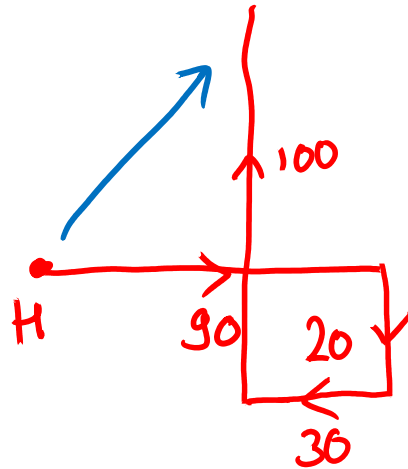
I. Ram started walking from his home in search of Sita. He went 90 m in the East, then he turned right and went 20 m. After this he turned right and after going 30 m he found a forest. He searched in the forest, but didn't find her. From there he went 100 m to his north and reached the bank of a river. In which direction from his home is he now?

A. North

B. East

✓ C. North-East

D. South-West



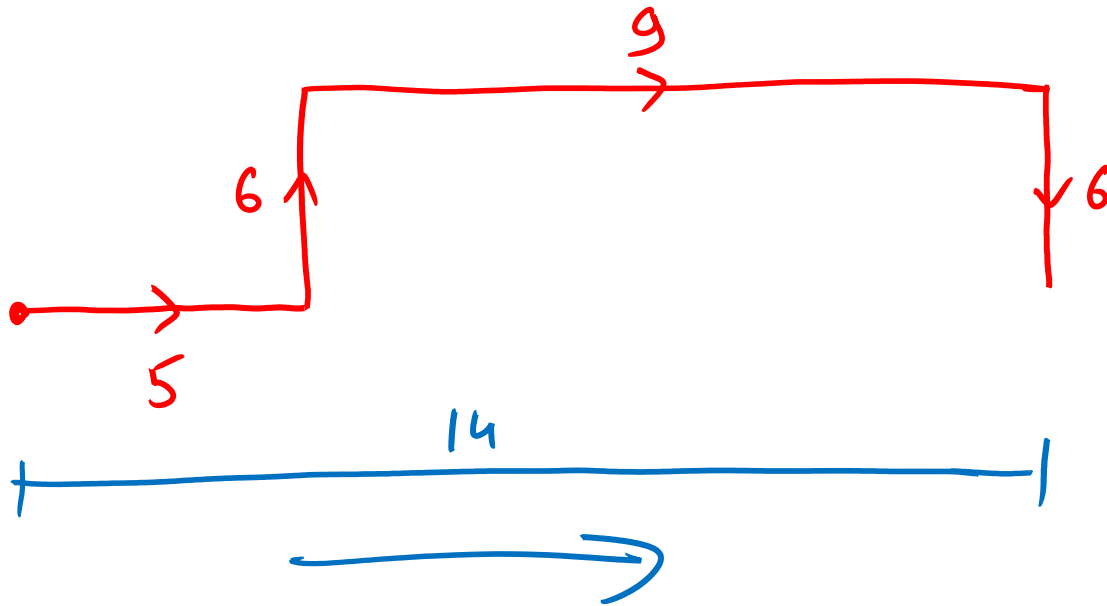
2. A boy runs 5 km towards East and then turns left and walks 6 km. Again he turns right and walks 9 km. Finally he turns to his right and walks 6 km. How far is he from the starting point and in which direction?

A. 9km, West

✓ B. 14km, East

C. 9km, East

D. 14km, West



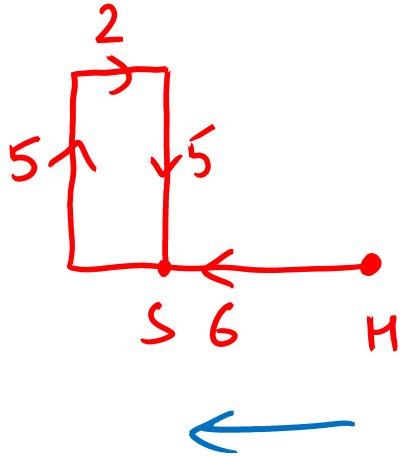
3. Early morning, Gendry started jogging, facing opposite the Sun, jogged for 6 km, then he turned right and jogged for 5 km, then again he turned right and jogged for 2 km and finally he jogged for 5 km by turning right and reached the swimming pool. In which direction from his home is the swimming pool?

✓ A. West

B. East

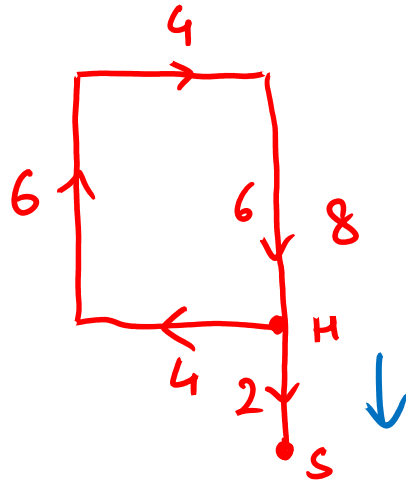
C. South

D. North



4. Snape starts walking from his home at 9 a.m. He walked 4 km towards West, then he turned right and walked for 6 km and then 4 km towards right, and finally he walked for 8 km to his right and reached the school in the town. How far and in which direction is he from his home now?

- ✓ A. 2 km South B. 12 km East C. 12 km South D. 2 km North



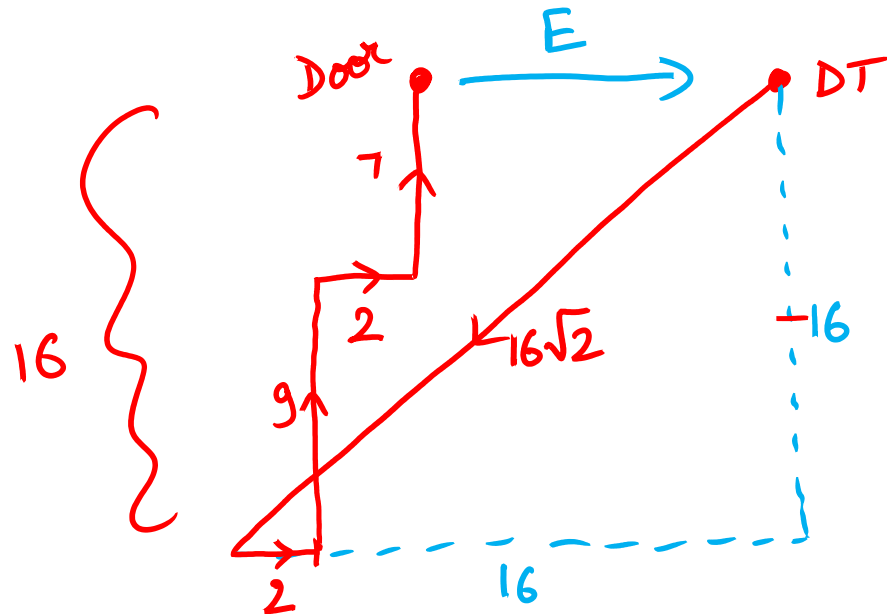
5. Tom started chasing Jerry from the dining table, ran behind him for $16\sqrt{2}$ m towards South-West, from there 2 m towards the East, then 9 m towards North, and then 2 m towards East and finally he ran for 7 m till the door in the North and caught Jerry. In which direction is the dining table with respect to the door?

A. North-West

B. West

✓ C. East

D. South-East



6. Dev, Kumar, Nilesh, Ankur and Pintu are standing facing to the North in a playground such as given below:

Kumar is at 40 m to the right of Ankur.

Dev is at 60 m in the south of Kumar.

Nilesh is at a distance of 25 m in the west of Ankur.

Pintu is at a distance of 90 m in the North of Dev.

i) Which one is in the North-East of the person who is to the left of Kumar?

A. Dev

B. Nilesh

C. Ankur

✓ D. Pintu

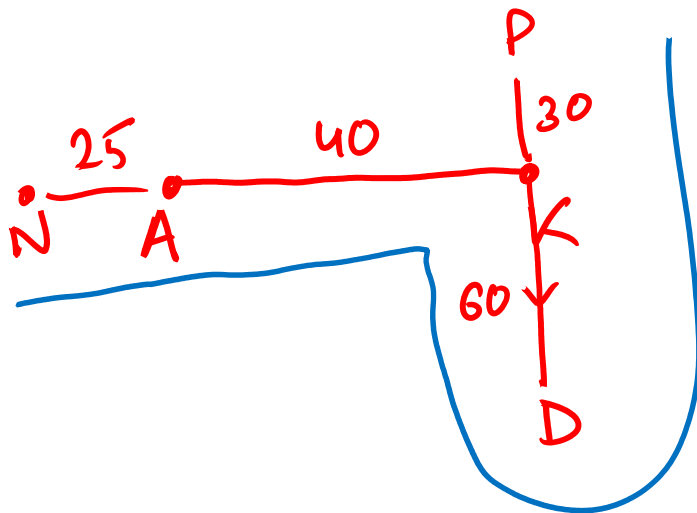
ii) If a boy starting from Nilesh, met Ankur and then Kumar and then Dev and then Pintu and whole the time he walked in a straight line, then how much total distance did he cover?

✓ A. 215 m

B. 155 m

C. 245 m

D. 185 m



$$25 + 40 + 60 + 90 = \underline{\underline{215 \text{ m}}}$$

7. Harry went in search of Frodo from his home. He walked for 300 m towards East, then walked for 400 m to his left, from there 700 m towards his right and reached the school. There he didn't find Frodo. From school he started walking towards South, walked for 900 m, then took a right turn and walked for 300 m, and then he took a left turn and walked for 200 m. Finally, Harry found Frodo in a playground there.

i) In which direction is their home with respect to the playground?

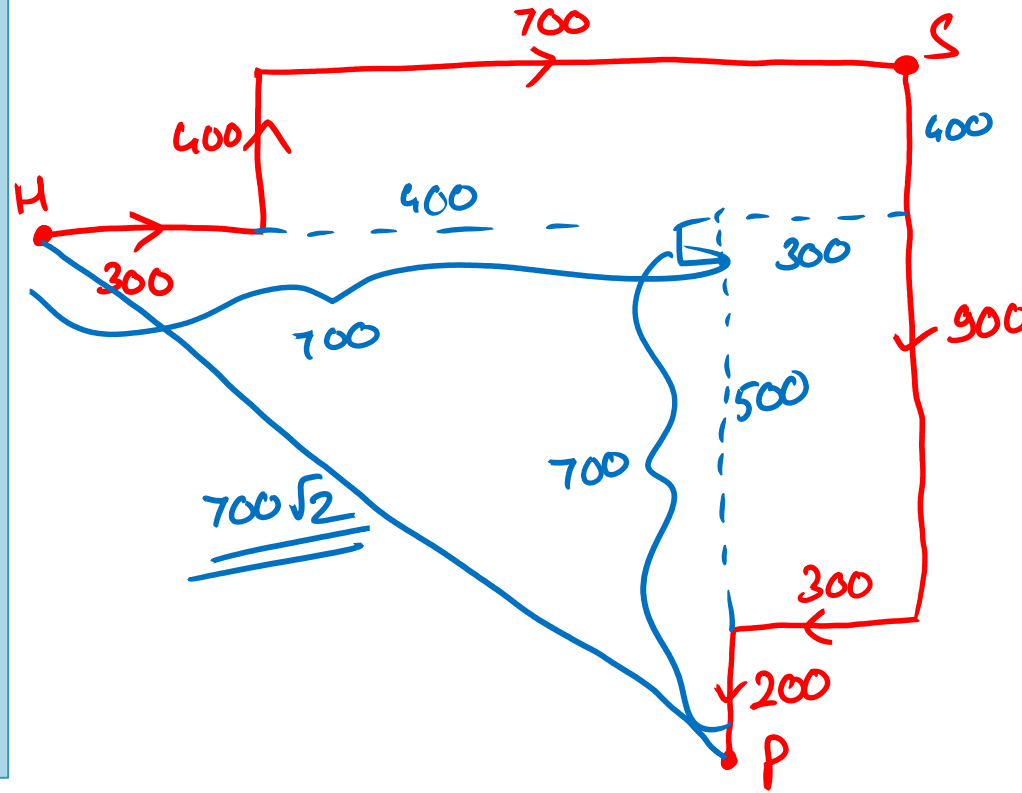
- A. West
C. North-East
✓ B. North-West
D. None of these

ii) In which direction is the school with respect to the home?

- A. South-East
✓ C. North-East
B. South-West
D. North-West

iii) How far is the playground from their home?

- A. 700 m
C. $500\sqrt{2}$ m
✓ B. $700\sqrt{2}$ m
D. 900 m



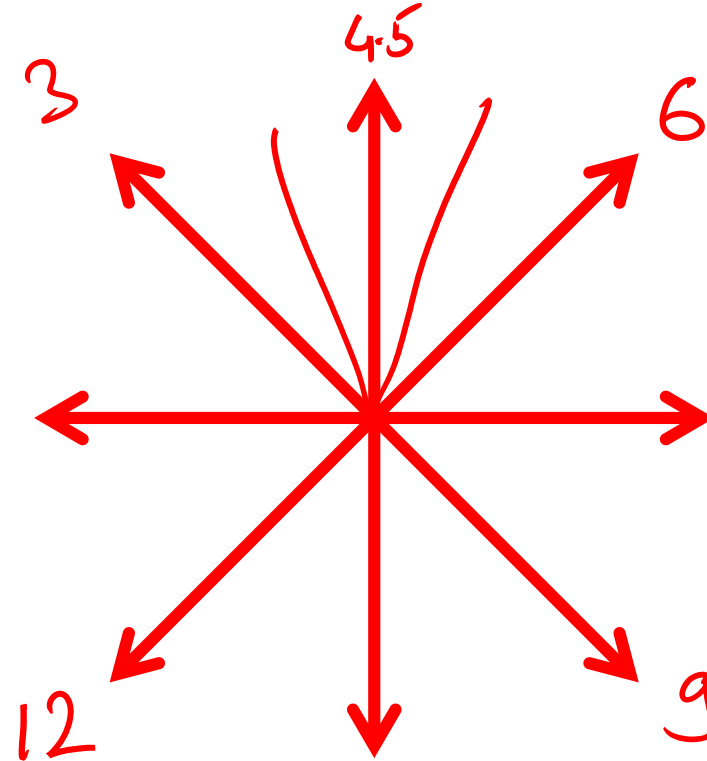
8. Hermione has kept her wrist-watch on her table in such a way that the hour hand points towards North-East and the minute hand towards South-West at 6 p.m.

i) Towards which direction is the hour hand pointing at 3:00 a.m.?

- A. North-East
- ✓ B. North-West
- C. South-East
- D. South-West

ii) Towards which directions are the hour hand and minute hand respectively pointing at 4:30 in the evening?

- A. North, North-West
- B. South, South-East
- ✓ C. North, North-East
- D. South-East, South



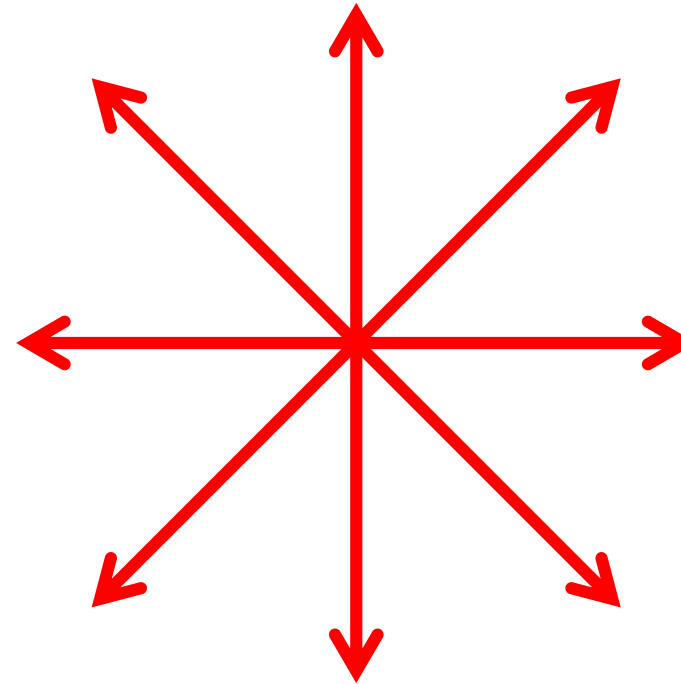
9) The time piece in Dumbledore's home is kept in such a way that the hour hand points towards North at 9:00 in the morning.

i) In which direction will the minute hand point at 6:15 in the next morning if the position of the clock is unchanged?

- A. North
- B. West
- C. East
- D. South

ii) In which directions will the minute hand and hour hand respectively point at 10:30 a.m.?

- A. West, North-West
- B. West, North-East
- C. North-East, West
- D. North-West, East



10) If South-West becomes South-East, West becomes South and so on then

i) _____ becomes East.

A. West

B. North

✓ C. South

D. North-West

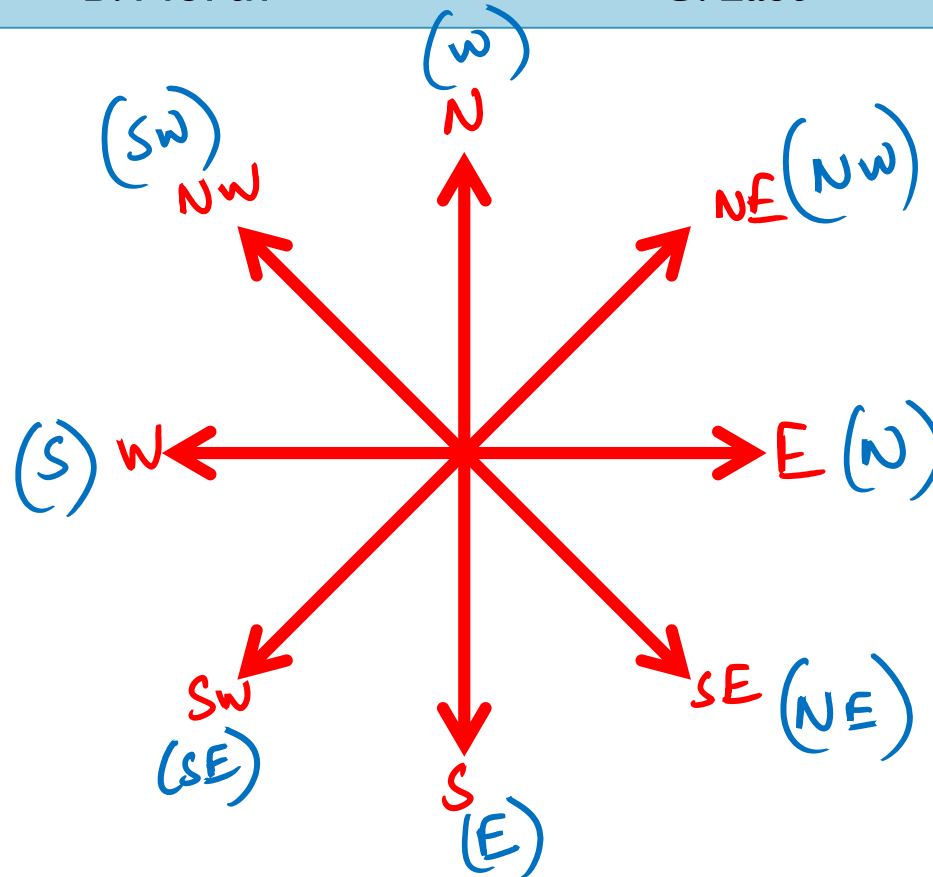
ii) North-East becomes _____.

A. South-West

B. North

C. East

✓ D. North-West



ANSWER KEY – DIRECTIONS

QUESTION	ANSWER
1	C
2	B
3	A
4	A
5	C
6	D, A
7	B, C, B
8	B, C
9	D, B
10	C, D