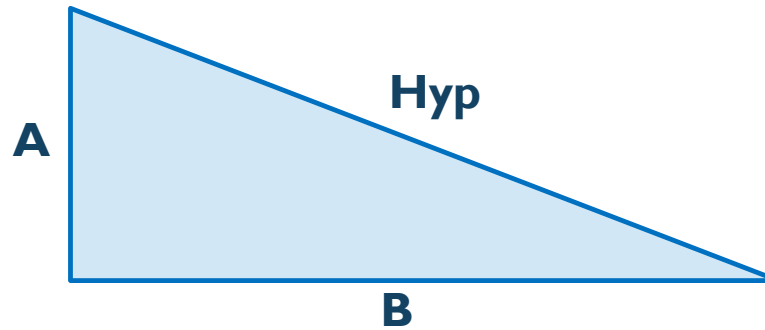
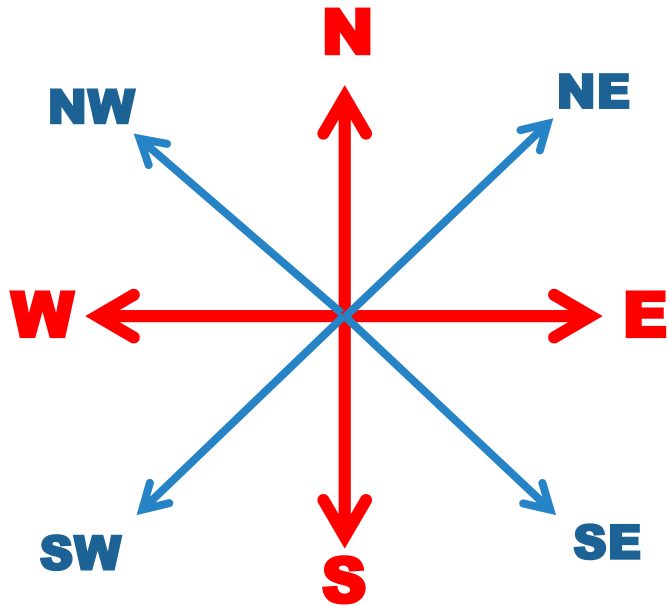
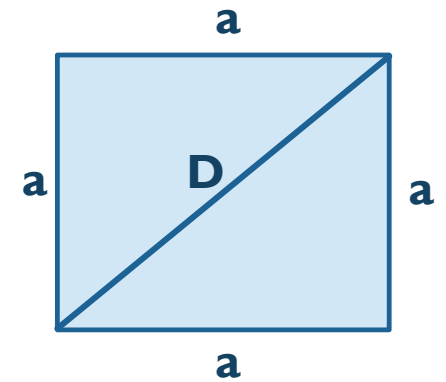

DIRECTIONS

- 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

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 | B. North-West |
| C. North-East | D. None of these |

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

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

iii) How far is the playground from their home?

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

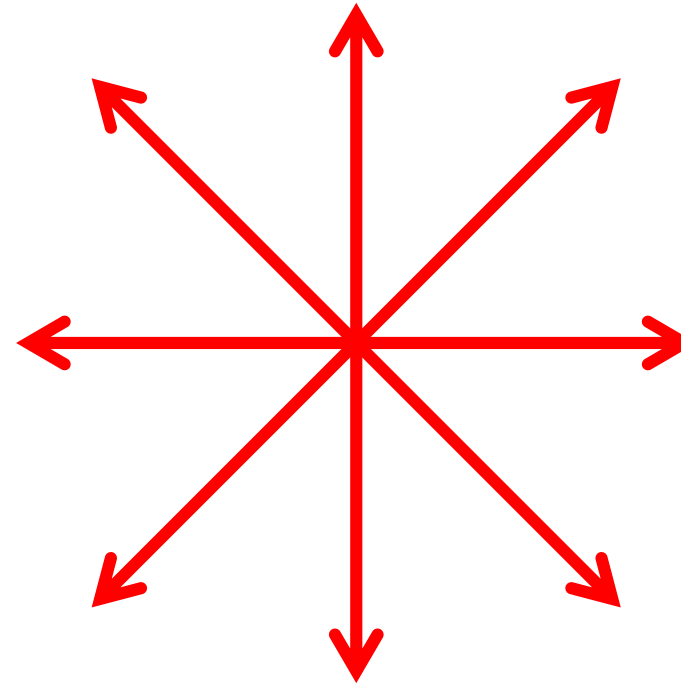
8. Hermione has kept her wrist-watch on her table in such a way that the hour hand points towards North-East and the minute hand towards South-West at 6 p.m.

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



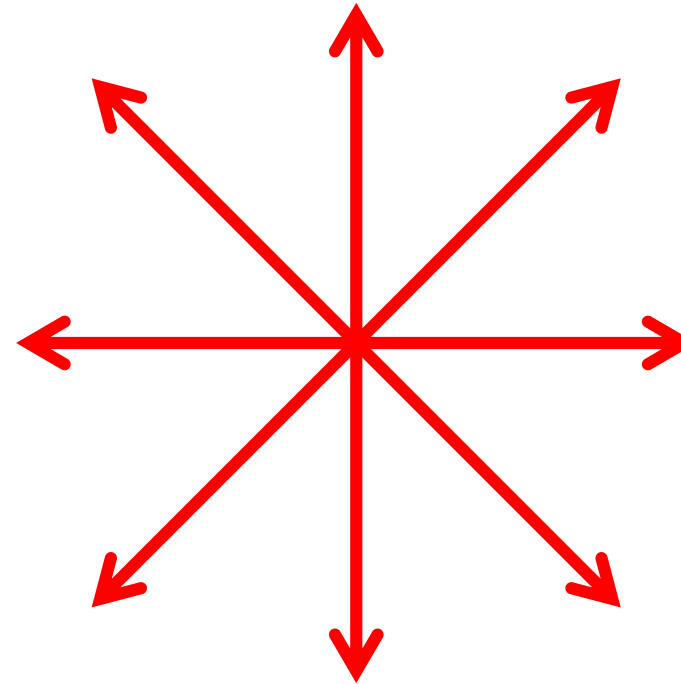
9) The time piece in Dumbledore's home is kept in such a way that the hour hand points towards North at 9:00 in the morning.

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

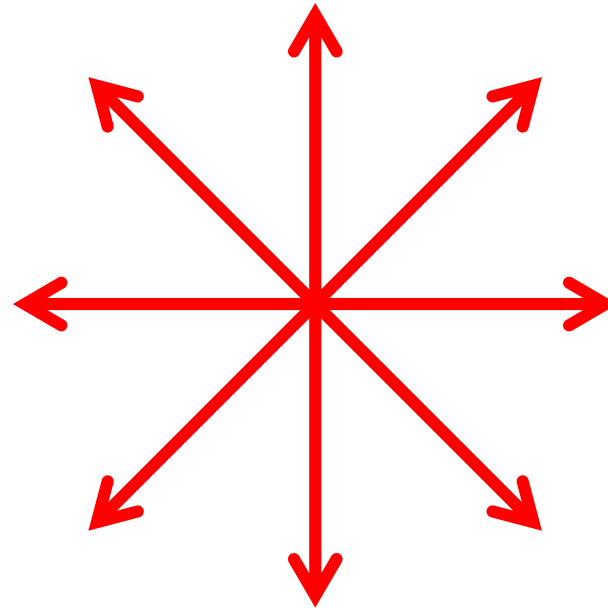
ii) North-East becomes _____.

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