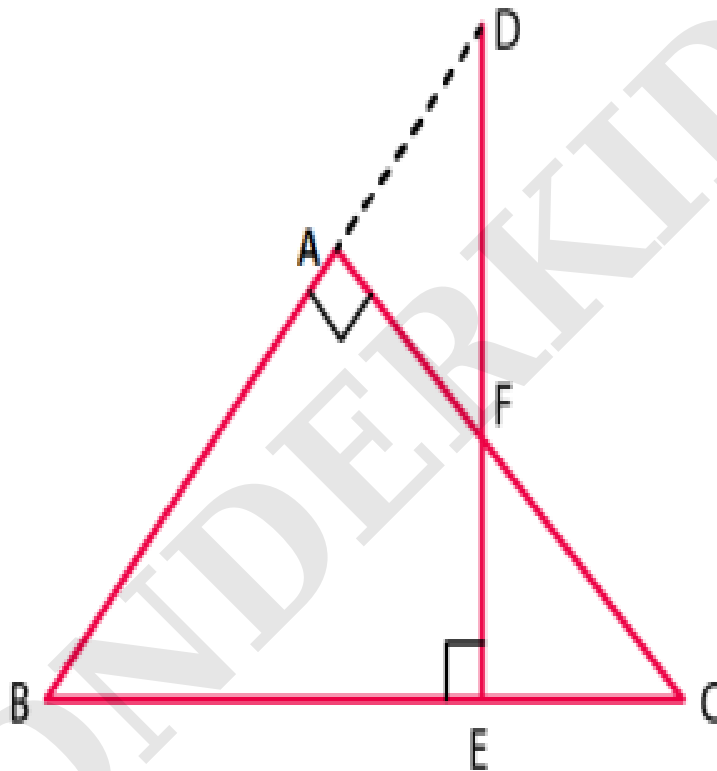
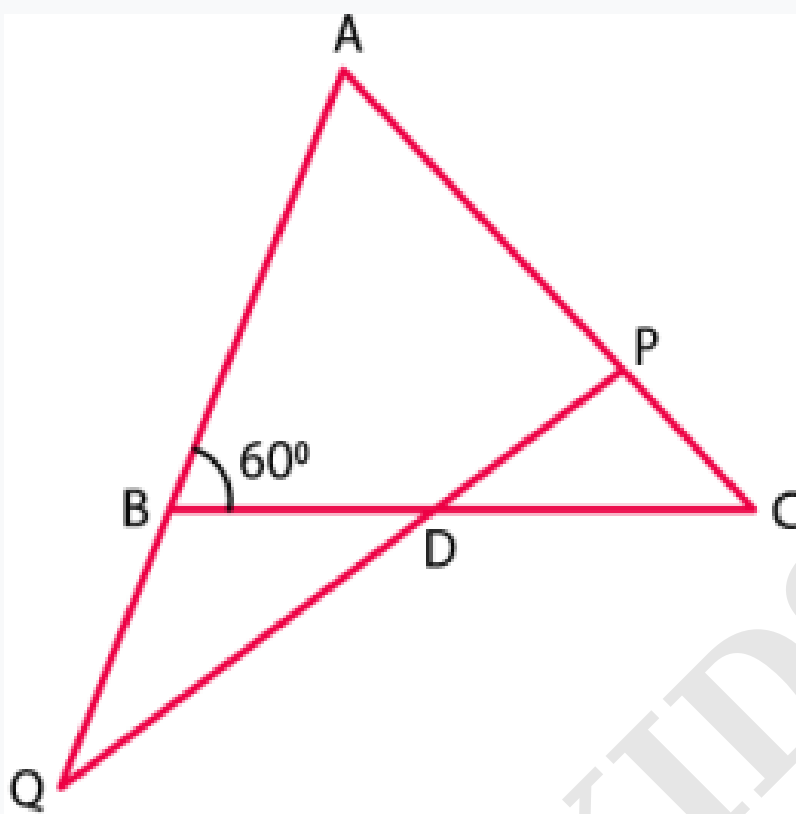


Q1. In the figure, ABC is a right triangle right angled at A. D lies on BA produced and DE perpendicular to BC intersecting AC at F. If  $\angle AFE = 144^\circ$ , find  $\angle BDE$ .



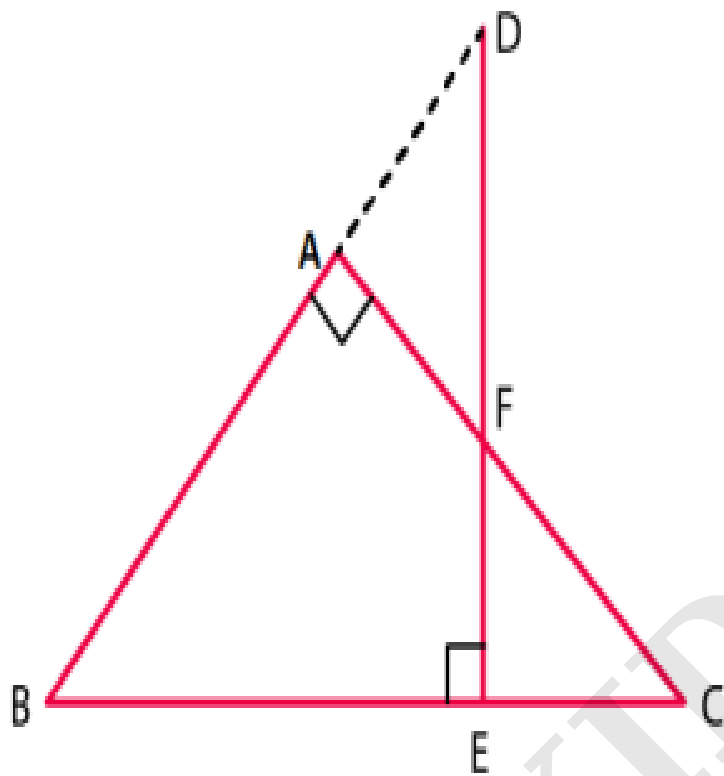
- A. 81
- B. 57
- C. 126
- D. 54

Q2. D is a point on the side BC of  $\triangle ABC$ . A line PDQ through D, meets side AC in P and AB produced at Q. If  $\angle ABC = 60^\circ$ ,  $\angle A = 61^\circ$  and  $\angle AQD = 11^\circ$ , find  $\angle PDC$ .



- A. 131
- B. 49
- C. 39
- D. 79

Q3. In the figure, ABC is a right triangle right angled at A. D lies on BA produced and DE perpendicular to BC intersecting AC at F. If  $\angle BDE = 57^\circ$ , find  $\angle AFE$ .

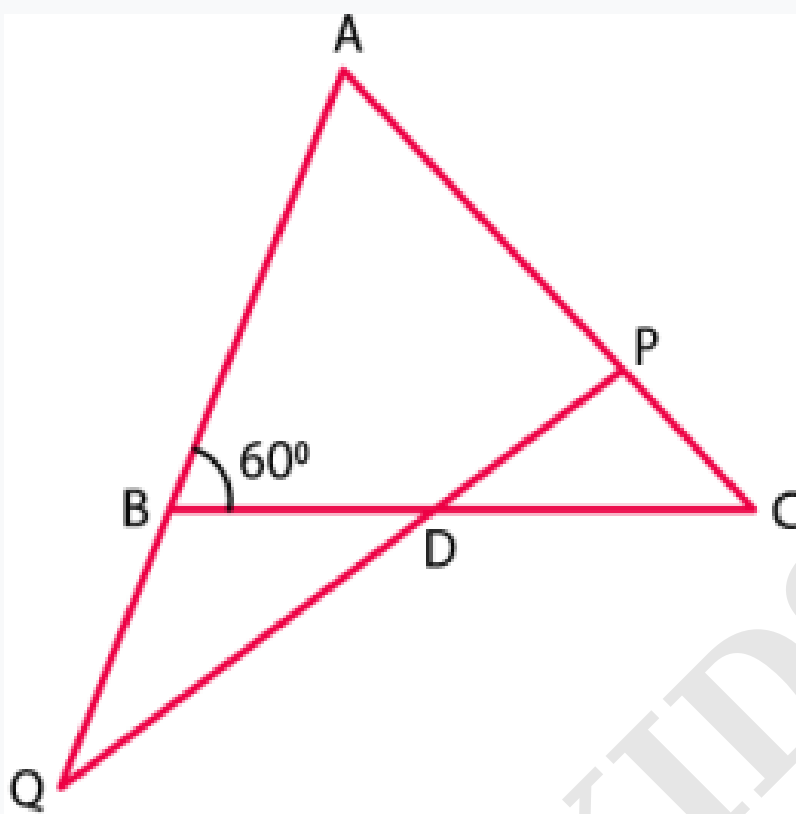


- A. 33
- B. 158
- C. 147
- D. 163

Q4. If the angles of a triangle ABC,  $\angle A:\angle B:\angle C$  are in the ratio 4:1:1, determine  $\angle B$ .

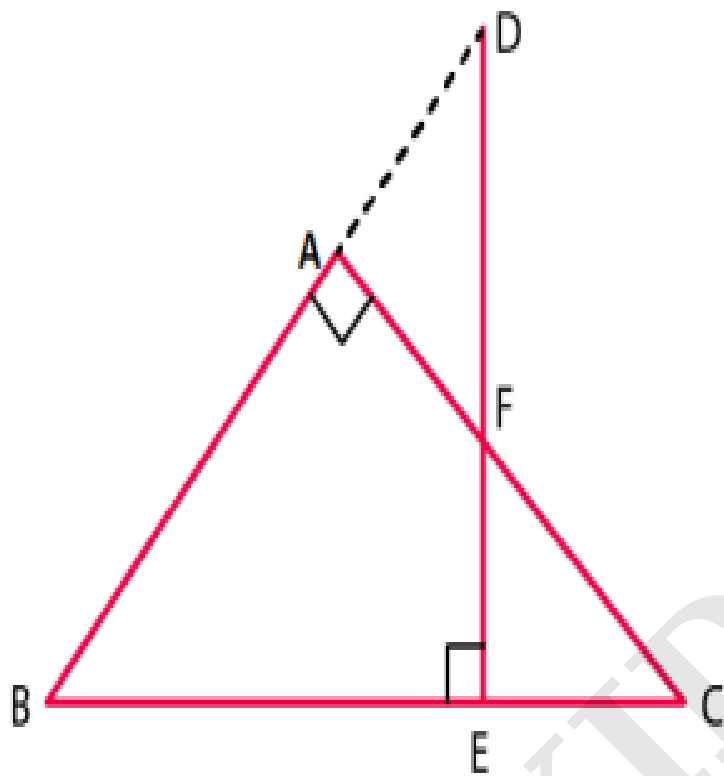
- A. 42
- B. 150
- C. 33
- D. 30

Q5. D is a point on the side BC of  $\triangle ABC$ . A line PDQ through D, meets side AC in P and AB produced at Q. If  $\angle ABC = 60^\circ$ ,  $\angle A = 48^\circ$  and  $\angle PDC = 20^\circ$ , find  $\angle APQ$ .



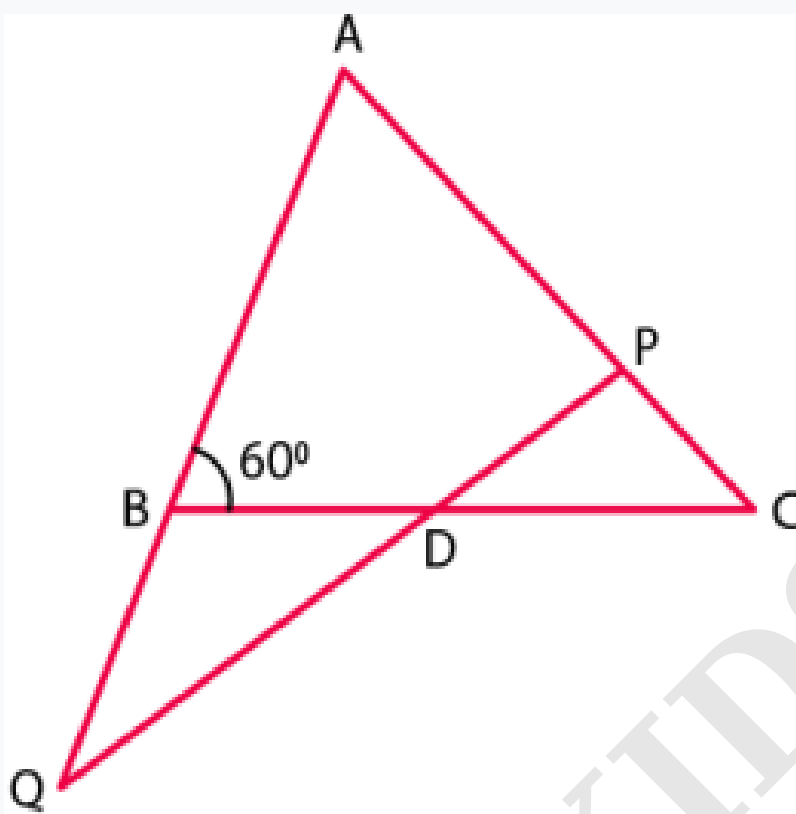
- A. 72
- B. 88
- C. 92
- D. 67

Q6. In the figure, ABC is a right triangle right angled at A. D lies on BA produced and DE perpendicular to BC intersecting AC at F. If  $\angle BDE = 59^\circ$ , find  $\angle ABC$ .



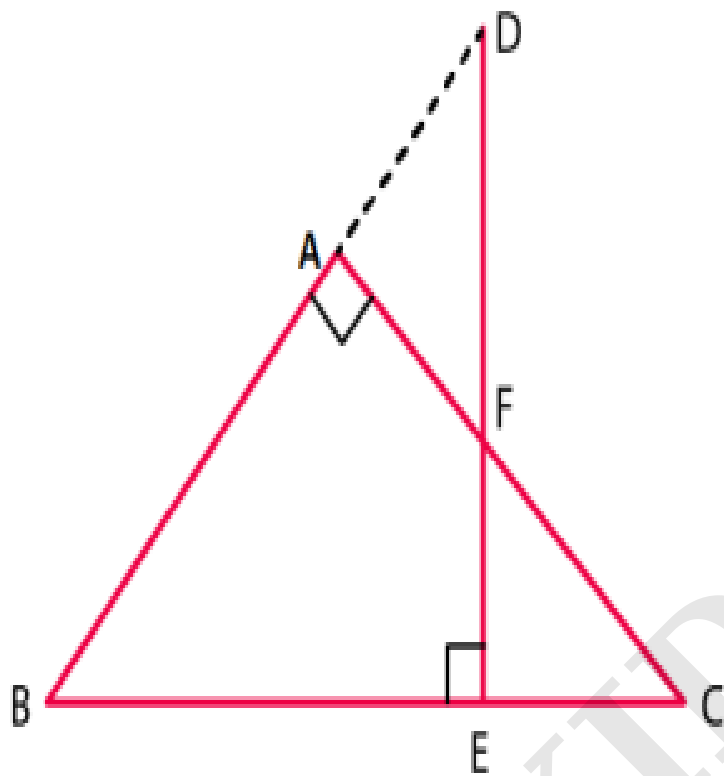
- A. 23
- B. 50
- C. 31
- D. 149

Q7. D is a point on the side BC of  $\triangle ABC$ . A line PDQ through D, meets side AC in P and AB produced at Q. If  $\angle ABC = 60^\circ$ ,  $\angle A = 26^\circ$  and  $\angle PDC = 12^\circ$ , find  $\angle AQD$ .



- A. 132
- B. 46
- C. 67
- D. 48

Q8. In the figure, ABC is a right triangle right angled at A. D lies on BA produced and DE perpendicular to BC intersecting AC at F. If  $\angle AFE = 135^\circ$ , find  $\angle ABC$ .



- A. 135
- B. 45
- C. 37
- D. 60

Q9. One of the angles of a triangle is  $118^\circ$ , and the other two angles are equal. What is the measure of each of these equal angles?

- A. 21
- B. 31
- C. 22
- D. 60

Q10. One of the angles of a triangle is  $82^\circ$ , and the other two angles are equal. What is the measure of each of these equal angles?

- A. 49
- B. 75

C. 29

D. 131

WONDERKIDS

# Answer Sheet

Q1. D	Q2. B	Q3. C
Q4. D	Q5. C	Q6. C
Q7. D	Q8. B	Q9. B
Q10. A		

WONDERKIDS