

## Answer keys:


### MCQs

1. C
2. B
3. C
4. C
5. D
6. C
7. D
8. C
9. C
10. C
11. A
12. D
13. A
14. D
15. C
16. B
17. D
18. B
19. D
20. A
21. C
22. C
23. D
24. A
25. C
26. B
27. D
28. B
29. B
30. B
31. C

32. D
33. C
34. A
35. A
36. D
37. C
38. A
39. A
40. A

### Questions

41.  $58^\circ$
42.  $40^\circ$
44.  $196^\circ$
45.  $108^\circ$
46.  $105^\circ$
- 47 (a)  $60^\circ$
- 48 (a)  $65^\circ$   
(b)  $62^\circ$   
(c)  $60^\circ$
- 49 (a)  $15^\circ$   
(b)  $105^\circ$
50.  $150^\circ$
51.  $36^\circ$
52.  $25^\circ$
53.  $43^\circ$
54. South-west
55.  $105^\circ$
56.  $81^\circ$
57.  $74^\circ$
58.  $115^\circ$
59.  $135^\circ$

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- 60.**  $26^\circ$   
**61.**  $180^\circ$   
**62.**  $66^\circ$   
**63.**  $135^\circ$   
**64.**  $50^\circ$   
**65.**  $147^\circ$   
**66.**  $97^\circ$   
**67.**  $217^\circ$   
**68.**  $25^\circ$   
**69.**  $57^\circ$   
**70.**  $40^\circ$   
**71.**  $52^\circ$   
**72.**  $40^\circ$   
**73 (a)**  $100^\circ$   
**(b)**  $140^\circ$   
**74.**  $70^\circ$   
**75.**  $39^\circ$   
**76.**  $150^\circ$   
**77.**  $62^\circ$   
**78.**  $73^\circ$   
**79.**  $45^\circ$   
**80 (a)**  $45^\circ$   
**(b)**  $135^\circ$   
**81.**  $82^\circ$   
**82.**  $33^\circ$   
**83 (a)**  $\angle e$   
**(b)**  $45^\circ$   
**84 (a)**  $\angle AOC$   
**(b)**  $75^\circ$   
**85.**  $144^\circ$   
**86.**  $315^\circ$   
**87.**  $34^\circ$   
**89 (a)**  $63^\circ$   
**(b)**  $117^\circ$   
**90.**  $108^\circ$   
**91 (a)**  $30^\circ$   
**(b)**  $28^\circ$   
**92.**  $40^\circ$   
**93 (a)**  $36^\circ$   
**(b)**  $153^\circ$   
**94 (a)**  $125^\circ$   
**(b)**  $89^\circ$   
**95.**  $30^\circ$   
**96.**  $111^\circ$   
**97 (a)**  $15^\circ$   
**(b)**  $143^\circ$   
**98.**  $110^\circ$   
**99 (a)**  $28^\circ$   
**(b)**  $84^\circ$   
**100 (a)**  $115^\circ$   
**(b)**  $15^\circ$   
**101.**  $55^\circ$   
**102.** West  
**103.**  $60^\circ$   
**104.**  $35^\circ$   
**105.**  $117^\circ$   
**106.**  $145^\circ$   
**107.**  $104^\circ$   
**108 (a)**  $69^\circ$   
**(b)**  $55^\circ$   
**109.**  $67^\circ$   
**110.**  $109^\circ$   
**111.**  $104^\circ$   
**112.**  $150^\circ$   
**113.**  $82^\circ$   
**114.**  $26^\circ$   
**115 (b)**  $136^\circ$

116 (a)  $118^\circ$

(b)  $62^\circ$

117.  $115^\circ$

118.  $126^\circ$

119.  $30^\circ$

120.  $25^\circ$