

Q3 (Compass) Day 78 Name: _____

1. A hiker is facing **north**. They turn **10° clockwise** and then **one quarter of a turn anticlockwise**. They **now turn clockwise through an acute angle** and they are **once again facing north**. What is the acute angle? your answer in the space below.

2. A hiker is facing **south**. They turn **30° anticlockwise** and then **one quarter of a turn clockwise**. They **now turn anticlockwise through an acute angle** and they are **once again facing south**. What is the acute angle? your answer in the space below.

3. A hiker is facing **east**. They turn **70° clockwise** and then **one quarter of a turn anticlockwise**. They **now turn clockwise through an acute angle** and they are **once again facing east**. What is the acute angle? your answer in the space below.

4. A hiker is facing **west**. They turn **60° anticlockwise** and then **half a turn clockwise**. They **now turn anticlockwise through an obtuse angle** and they are **once again facing west**. What is the obtuse angle? your answer in the space below.

5. A hiker is facing **north east**. They turn **80° clockwise** and then **half a turn anticlockwise**. They **now turn clockwise through an obtuse angle** and they are **once again facing north east**. What is the obtuse angle? your answer in the space below.

6. A hiker is facing **north west**. They turn **40° anticlockwise** and then **half a turn clockwise**. They **now turn anticlockwise through an obtuse angle** and they are **once again facing north west**. What is the obtuse angle? your answer in the space below.

7. A hiker is facing **south east**. They turn **20° clockwise** and then **three quarters of a turn anticlockwise**. They **now turn clockwise through a reflex angle** and they are **once again facing south east**. What is the reflex angle? your answer in the space below.

8. A hiker is facing **south west**. They turn **50° anticlockwise** and then **three quarters of a turn clockwise**. They **now turn anticlockwise through a reflex angle** and they are **once again facing south west**. What is the reflex angle? your answer in the space below.

9. A hiker is facing **north**. They turn **100° clockwise** and then **three quarters of a turn anticlockwise**. They **now turn clockwise through an obtuse angle** and they are **once again facing north**. What is the obtuse angle? your answer in the space below.

10. A hiker is facing **south**. They turn **120° anticlockwise** and then **one quarter of a turn clockwise**. They **now turn anticlockwise through a reflex angle** and they are **once again facing south**. What is the reflex angle? your answer in the space below.

11. A hiker is facing **east**. They turn **110° clockwise** and then **half a turn anticlockwise**. They **now turn clockwise through an acute angle** and they are **once again facing east**. What is the acute angle? your answer in the space below.

12. A hiker is facing **west**. They turn **130° anticlockwise** and then **three quarters of a turn clockwise**. They **now turn anticlockwise through an obtuse angle** and they are **once again facing west**. What is the obtuse angle? your answer in the space below.

Answers

- 1. 80**
- 2. 60**
- 3. 20**
- 4. 120**
- 5. 100**
- 6. 140**
- 7. 250**
- 8. 220**
- 9. 170**
- 10. 330**
- 11. 70**
- 12. 140**