ANGLES

13

Q1. **What fraction of a turn does the minute hand move if it moves from 2 to 3?**

Answer: _____

Q2. **What is the difference between the angles formed by the hands of a clock at 1 o'clock and 6 o'clock?**
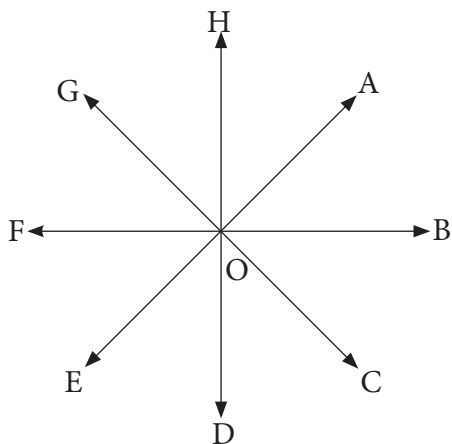
Answer: _____

Q3. **Express the angle in degrees representing $\frac{11}{24}$ turn.**

Answer: _____

Q4. **Express 12°60' in minutes.**

Answer: _____

Q5. **Shubham started from point O and went to his friend who lives at point A. Then he went to point B and finally reached point C. By how many degrees did Shubham turn from the point A to his final destination (C).**

Answer: _____

Q6. **The sum of an angle and its reflex angle is 360°. Prove this statement with the help of an example.**
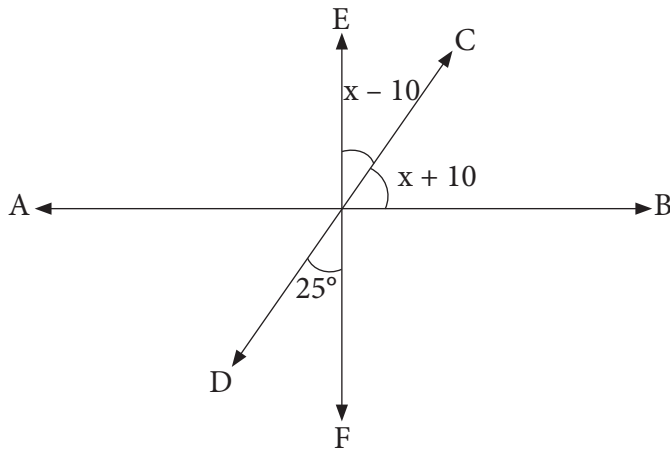
Answer: _____

1

Q7. If the measure of $\angle AOB = 44° 36' 39''$ and $\angle BOC = 26° 44' 43''$, find the sum of both the angles.

Answer: _____

Q8. For what value of x will the two adjacent angles (x+5) and (x+15) form a straight line.

Answer: _____

Q9. Find the value of x in the figure given below:

Answer: _____

Q10. Two complimentary angles are in the ratio 2:3. Find the measure of both the angles.

Answer: _____

ANSWERS

1. $\dfrac{1}{12}$ turn

2. $180 - 30 = 150°$

3. $165°$

4. 721 minutes

5. $90°$

6. Let $\angle ABC = 25°$, reflex $\angle ABC = 360° - 25° = 335°$; $335° + 25° = 360°$

7. $71° \; 21' \; 22''$

8. $x = 80$

9. $x = 45°$

10. $36°, 54°$