

Relating angles and turns

Through how many degrees does the hand on a clock turn if it moves clockwise:

- | | |
|-----------------|-----------------|
| 1 from 12 to 3? | 5 from 5 to 8? |
| 2 from 3 to 9? | 6 from 4 to 10? |
| 3 from 9 to 12? | 7 from 12 to 9? |
| 4 from 1 to 7? | 8 from 1 to 4? |

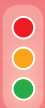


Write which number on the clock the hand would point to if it turns clockwise through each given angle.

- 9 The hand starts at 5 and turns 90° .
- 10 The hand starts at 2 and turns 180° .
- 11 The hand starts at 11 and turns 90° .
- 12 The hand starts at 6 and turns 180° .
- 13 The hand starts at 8 and turns 90° .
- 14 The hand starts at 10 and turns 270° .



How many start and end positions are there on a clock face where you can turn through 90° ? For example, 12 to 3, 1 to 4 and so on.



I am confident with the relationship between degree turns and angles.