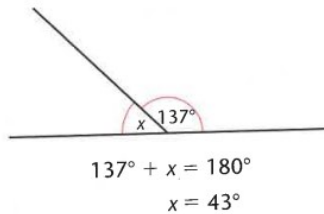


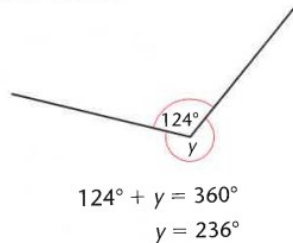
ANGLES ON A STRAIGHT LINE

The sum of the angles on a straight line is 180° .



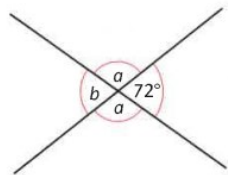
ANGLES AT A POINT

A whole turn is 360° .



VERTICALLY OPPOSITE ANGLES

Where two straight lines cross each other opposite angles are equal.



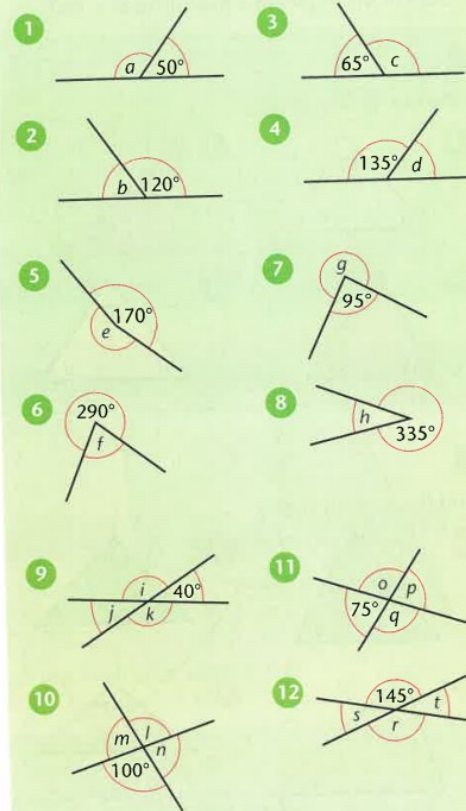
$$b = 72^\circ \text{ (vertically opposite)}$$

$$a + 72^\circ = 180^\circ$$

$$a = 108^\circ$$

A

Find the angles marked with letters.

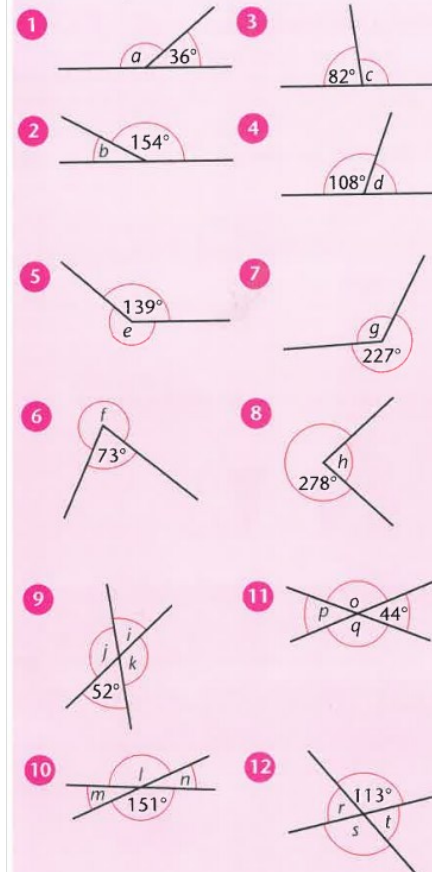


How many degrees clockwise is the turn from:

- | | |
|---------------------------------|-------------|
| 13 S to W | 17 N to NW |
| 14 NE to SW | 18 SE to NE |
| 15 E to SE | 19 NW to S |
| 16 NW to E | 20 W to NE? |
| 21 How many degrees is: | |
| a) $2\frac{1}{2}$ right angles | |
| b) $1\frac{1}{3}$ right angles? | |

B

Find the angles marked with letters.

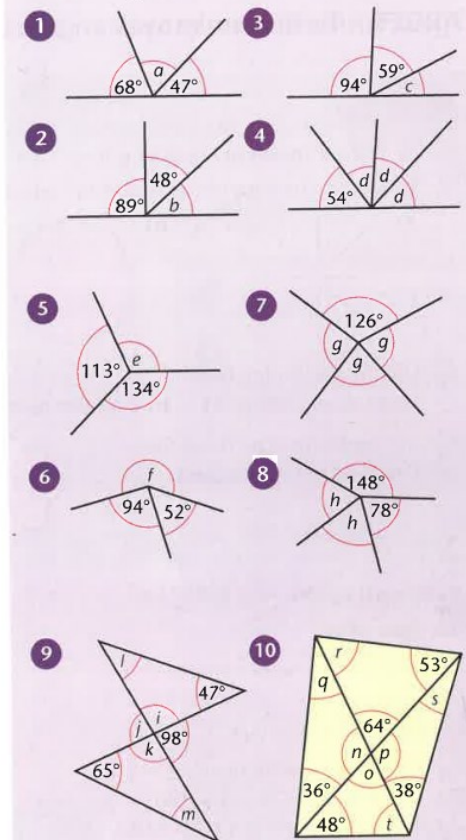


How many degrees does the hour hand turn from:

- | | |
|-----------------------------------|-------------------|
| 13 11:00 to 5:00 | 17 7:00 to 10:00 |
| 14 8:00 to 9:00 | 18 5:00 to 9:00 |
| 15 4:00 to 1:00 | 19 8:00 to 6:00 |
| 16 2:00 to 4:00 | 20 12:00 to 8:00? |
| 21 What angle is: | |
| a) $\frac{4}{5}$ of a right angle | |
| b) $\frac{7}{8}$ of a whole turn. | |

C

Find the angles marked with letters.



How many degrees does the minute hand turn in:

- | | |
|-------------------------------------|----------------|
| 11 30 minutes | 15 46 minutes |
| 12 1 minute | 16 55 minutes |
| 13 50 minutes | 17 12 minutes |
| 14 40 minutes | 18 25 minutes? |
| 19 What angle is: | |
| a) $\frac{3}{5}$ of a right angle | |
| b) $\frac{11}{12}$ of a whole turn. | |