27 In this question, all lengths are in centimetres.
$A$ is a point on a circle, centre $O$.
$B$ is a point on a different circle, centre $O$.
$A B=20$


The equation of the larger circle is $\quad x^{2}+y^{2}=144$
radius of smaller circle : radius of larger circle $=4: 5$

Work out the size of angle $A O B$.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Answer $\qquad$ degrees

## Turn over for the next question

