## 1128 =2 delys to go!

(a) Write the binary number
as a decimal number.

Answer
(b) Write the decimal number 31 as a binary number.

Answer
5. Jennifer is playing darts.

She throws two darts aiming for a Bullseye.
The probability Jennifer hits the Bullseye on her first throw is $1 / 4$.
The probability she hits the Bullseye on her second throw $1 / 3$.
(a) Complete the tree diagram.

(b) Work out the probability Jennifer hits the Bullseye at least once.
3. The diagram shows the circle $x^{2}+y^{2}=40$ with a tangent at the point $(2,6)$

(a) Find the gradient of the line $A O$.
$\qquad$
(b) Find the gradient of the tangent
(c) Find the equation of the tangent

