1. Express in simplest form with a rational denominator:
(a) $\frac{2}{\sqrt{4}}$
(b) $\frac{3 \sqrt{5}}{\sqrt{8}}$
(c) $\frac{4}{(\sqrt{3}+1)}$
2. Find the exact area of the triangle.

3. After a $4 \%$ pay rise Lisa earns $£ 1456$ per month.

What did she earn before the pay rise?
4. Expand and simplify:
(a) $3 a(a+5)-2 a(a-7)$
(b) $(b+3)(2 b-4)$
(c) $(2 c+4)\left(c^{2}+3 c+4\right)$
5. Fully factorise:
(a) $12 x^{2}-27$
(b) $x^{2}+13 x+36$
(c) $x^{2}-14 x+24$
(d) $2 x^{2}-5 x-12$

