FACTORISING

MIXED FACTORS

Ref: G226. 4F3

A1 Factorise fully: $3ab+6a$	**A2** Factorise fully: $2ab+6b$	**A3** Factorise fully: $4a-6ab$	**A4** Factorise fully: $9b-6ab$
B1 Factorise fully: $2a^2+4a$	**B2** Factorise fully: $12a-4a^2$	**B3** Factorise fully: $12a^3+20a$	**B4** Factorise fully: $8a^4-6a$
C1 Factorise fully: $15ab+5abc$	**C2** Factorise fully: $2ab^2c-8bc$	**C3** Factorise fully: $4ab^2+10a^2b$	**C4** Factorise fully: $8ab^2c-12ac^2$
D1 Factorise fully: $3a^4+9a^2$	**D2** Factorise fully: $5a^5+10a^2$	**D3** Factorise fully: $6a^3-15a^7$	**D4** Factorise fully: $15a^7b-10a^5$
E1 Factorise fully: $4a^3b+16a^2b$	**E2** Factorise fully: $12a^3b-3a^5b^3$	**E3** Factorise fully: $10a^3b^4+25a^6b$	**E4** Factorise fully: $8a^6b^5-6a^2b^7$

FACTORISING

MIXED FACTORS

Ref: G226. **4F3**

A1 Factorise fully: $3ab+6a = 3a(b+2)$	**A2** Factorise fully: $2ab+6b = 2b(a+3)$	**A3** Factorise fully: $4a-6ab = 2a(2-3b)$	**A4** Factorise fully: $9b-6ab = 3b(3-2a)$
B1 Factorise fully: $2a^2+4a = 2a(a+2)$	**B2** Factorise fully: $12a-4a^2 = 4a(3-a)$	**B3** Factorise fully: $12a^3+20a = 4a(3a^2+5)$	**B4** Factorise fully: $8a^4-6a = 2a(4a^3-3)$
C1 Factorise fully: $15ab+5abc = 5ab(3+c)$	**C2** Factorise fully: $2ab^2c-8bc = 2bc(ab-4)$	**C3** Factorise fully: $4ab^2+10a^2b = 2ab(2b+5a)$	**C4** Factorise fully: $8ab^2c-12ac^2 = 4ac(2b^2-3c)$
D1 Factorise fully: $3a^4+9a^2 = 3a^2(a^2+3)$	**D2** Factorise fully: $5a^5+10a^2 = 5a^2(a^3+2)$	**D3** Factorise fully: $6a^3-15a^7 = 3a^3(2-5a^4)$	**D4** Factorise fully: $15a^7b-10a^5 = 5a^5(3a^2b-2)$
E1 Factorise fully: $4a^3b+16a^2b = 4a^2b(a+4)$	**E2** Factorise fully: $12a^3b-3a^5b^3 = 3a^3b(4-a^2b^2)$	**E3** Factorise fully: $10a^3b^4+25a^6b$ $= 5a^3b(2b^3+5a^3)$	**E4** Factorise fully: $8a^6b^5-6a^2b^7$ $= 2a^2b^5(4a^4-3b^2)$