



# EXAM PAPERS PRACTICE

GCSE Edexcel Math  
1MA1  
Simple Factorization

Answers

*"We will help you to  
achieve A Star "*



**Answer 1**

Factorise completely  $8x^2 + 4xy$

$$\underline{\underline{4x(2x + y)}}$$



**Answer 2**

$$\begin{aligned}\text{Factorise } 6 + 9x &= 3 \times 2 + 3 \times 3 \times x \\ &= \underline{\underline{3(2 + 3x)}}\end{aligned}$$



**Answer 3**

Factorise  $3e^2 + 5e$

SIMPLE FACTORISATION

$$3e^2 + 5e = \underline{\underline{e(3e + 5)}}$$



**Answer 4**

(a) Simplify  $3a \times 5b \times 2c$

$$\begin{aligned} & 3 \times a \times 5 \times b \times 2 \times c \\ & = \underline{\underline{30abc}} \end{aligned}$$



**Answer 5**

Factorise  $y^2 + 27y$

SIMPLE FACTORISATION

$$= y \times y + 27 \times y$$

$$= \underline{\underline{y(y + 27)}}$$



**Answer 6**

Factorise

$$x^2 + 7x$$

$$= \underline{\underline{x(x + 7)}}$$



**Answer 7**

Factorise completely

$$6y^2 - 9xy$$

$$= 2 \times 3 \times y \times y - 3 \times 3 \times x \times y$$

$$= \underline{3y(2y - 3x)}$$





**Answer 8**

Factorise  $3x + 6$

$$= 3 \times x + 3 \times 2$$

$$= 3(x + 2)$$



**Answer 9**

(b) Factorise  $3y + 6$

$$\begin{aligned} &= 3 \times y + 3 \times 2 \\ &= 3(y + 2) \end{aligned}$$



**Answer 10**

Factorise fully  $9x^2 - 6xy$

$$\begin{aligned} &= 3 \times 3 \times x \times x - 3 \times 2 \times x \times y \\ &= \underline{\underline{3x(3x - 2y)}} \end{aligned}$$



**Answer 11**

Factorise  $5y - 15$

$$= 5 \times y - 5 \times 3$$

$$= \underline{\underline{5(y-3)}}$$



**Answer 12**

Factorise  $6m - 9$

$$= 3 \times 2 \times m - 3 \times 3$$

$$= \underline{\underline{3(2m - 3)}}$$



**Answer 13**

Factorise fully  $3xy^2 - 6xy$

In BRACKET

$= 3 \times x \times y \times y - 3 \times 2 \times x \times y$

$= \underline{\underline{3xy(y-2)}}$



**Answer 14**

Factorise fully  $18ab + 27ab^2$

$$\begin{aligned} &= 3 \times 6 \times a \times b + 3 \times 9 \times a \times b \times b \\ &= 3ab(6 + 9b) \\ &= 3ab(3 \times 2 + 3 \times 3b) \\ &= 3ab \times 3(2 + 3b) \\ &= \underline{\underline{9ab(2 + 3b)}} \end{aligned}$$



**Answer 15**

Factorise fully  $2x^2y + 4xy^2$

$$\begin{aligned} &= 2 \times x \times x \times y + 2 \times 2 \times x \times y \times y \\ &= \underline{2xy(x + 2y)} \end{aligned}$$