



EXAM PAPERS PRACTICE

GCSE OCR Math J560

Simple Factorisation

Answers

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



Answer 1

Factorise $x^2 + 7x$

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

Answer 2

Factorise completely $6y^2 - 9xy$

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



Answer 3

Factorise $3x + 6$

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

Answer 4

(b) Factorise $3y + 6$

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

Answer 5

Factorise completely $8x^2 + 4xy$

$$4x(2x + y)$$



Answer 6

Factorise $6 + 9x$

$$= 3 \times 2 + 3 \times 3 \times x$$
$$= \underline{\underline{3(2 + 3x)}}$$

Answer 7

Factorise $3e^2 + 5e$

SIMPLE FACTORISATION

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

Answer 8

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 9

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 10

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

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



Answer 11

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 12

Factorise $5y - 15$

$$\begin{aligned} &= 5 \times y - 5 \times 3 \\ &= \underline{\underline{5(y - 3)}} \end{aligned}$$



Answer 13

Factorise $6m - 9$

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

Answer 14

(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 15

Factorise $y^2 + 27y$

SIMPLE FACTORISATION

$$\begin{aligned} &= y \times y + 27 \times y \\ &= \underline{\underline{y(y + 27)}} \end{aligned}$$