

1MA1 Foundation themed papers: Expressions

Write your name here			
Surname	Other names		
Centre Number		Candidate Number	
Pearson Edexcel Level 1/Level 2 GCSE (9–1)			
Mathematics Expressions			
			Paper Reference 1MA1
You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.			Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- You must **show all your working.**
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.

Information

- The total mark for this paper is **32**. There are **12** questions.
- Questions have been arranged in an ascending order of mean difficulty, as found by all students in the June 2017–November 2019 examinations.
- The marks for **each** question are shown in brackets – *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

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1 Simplify $y + 3y - 2y$

.....
(Total for Question 1 is 1 mark)

2 Simplify $4e + 6f + 7e - f$

.....
(Total for Question 2 is 2 marks)



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

.....
(1)

(b) Simplify $3x + 2y + 5x - y$

.....
(2)

(Total for Question 3 is 3 marks)

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4 (a) Simplify $3f \times 5g$

.....
(1)

(b) Simplify $t \times t$

.....
(1)

(c) Simplify $\frac{2n + 6n}{2}$

.....
(1)

(Total for Question 4 is 3 marks)

5 (a) Simplify $a \times b \times 7$

.....
(1)

(b) Simplify $y \times y \times y$

.....
(1)

(c) Simplify fully $\frac{e \times e \times e \times f}{e \times e \times f \times f}$

.....
(2)

(Total for Question 5 is 4 marks)

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6 (a) Simplify $5p - 3p + p$

.....
(1)

(b) Simplify $m^3 + m^3$

.....
(1)

(c) Simplify $10 + 3c + 5d - 7c + d$

.....
(2)

(Total for Question 6 is 4 marks)

7 (a) Simplify $3m - m - m + 3m$

.....
(1)

(b) Simplify $2 \times n \times p \times 4$

.....
(1)

(Total for Question 7 is 2 marks)

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8 (a) Simplify $3 \times 4t$

.....
(1)

(b) Simplify $8a - 3a + 2a$

.....
(1)

(Total for Question 8 is 2 marks)



9 (a) Simplify $(p^2)^5$

.....
(1)

(b) Simplify $12x^7y^3 \div 6x^3y$

.....
(2)

(Total for Question 9 is 3 marks)

10 There are y boats on a lake.
There are 7 people in each boat.

Write an expression, in terms of y , for the total number of people in the boats.

.....
(Total for Question 10 is 1 mark)

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11 (a) Simplify $7 \times e \times f \times 8$

.....
(1)

(b) Solve $\frac{x}{5} = 2\frac{1}{2}$

$x =$
(1)

(Total for Question 11 is 2 marks)

12 (a) Simplify $m^3 \times m^4$

.....
(1)

(b) Simplify $(5np^3)^3$

.....
(2)

(c) Simplify $\frac{32q^9r^4}{4q^3r}$

.....
(2)

(Total for Question 12 is 5 marks)

TOTAL MARKS FOR PAPER: 32