



## Writing and Expression Exam Practice

Q1. Chas has  $p$  pencils. Derek has 5 more pencils than Chas.  
Write an expression for the number of pencils Derek has.

Answer: \_\_\_\_\_  
(1 mark)

Q2. Roy buys 5 packs of envelopes. Each pack contains  $e$  envelopes.  
Write an expression for the number of envelopes Roy has.

Answer: \_\_\_\_\_  
(1 mark)



Q3. Jana is  $y$  years old, and she is 24 years younger than her mother.  
Write an expression for her mother's age.

Answer: \_\_\_\_\_  
(1 mark)

Q4. Mark collects football stickers. Yesterday he had  $n$  stickers, but he lost 2 of them. Today, his friend gave him 5 more. Write an expression for how many stickers he currently has.

Answer: \_\_\_\_\_  
(1 mark)



Q5. Eric runs a taxi firm. He charges a £3 fixed charge, and then 50p per mile travelled. Write an expression for the cost, in £, for a customer who travels  $m$  miles.

Answer: \_\_\_\_\_  
(2 marks)

Q6. A farm-shop sells boxes of pears and bags of apples. Each box contains  $p$  pears and each bag contains  $a$  apples. Rashid buys 8 boxes of pears and 3 bags of apples.  
Write down an expression for the total amount of fruit he has bought.

Answer: \_\_\_\_\_  
(2 marks)



Q7. In an archery contest, players aim a circular target which has concentric circles painted on it. 6 points are awarded for hitting the white circle, 8 points are awarded for hitting the blue circle and 10 points for hitting the red circle. At the end of a contest, the white circle has been hit  $w$  times, the blue circle has been hit  $b$  times and the red circle has been hit  $r$  times.

Write an expression for the total amount of points scored in the contest.

Answer: \_\_\_\_\_  
(2 marks)

Q8. A flask contains 1 litre of juice. Tom drinks  $d$  ml of juice. His friend drinks twice as much as Tom. Write down an expression for the amount of juice in millimetres left in the flask.

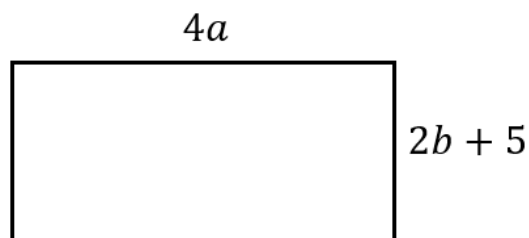
Answer: \_\_\_\_\_  
(2 marks)



Q9. A field contains  $f$  sun-flowers. Each sun-flower has  $p$  petals.  
During a flash flood, one-quarter of the flowers are washed away.  
Write down an expression for the number of petals which are left.

Answer: \_\_\_\_\_  
(2 marks)

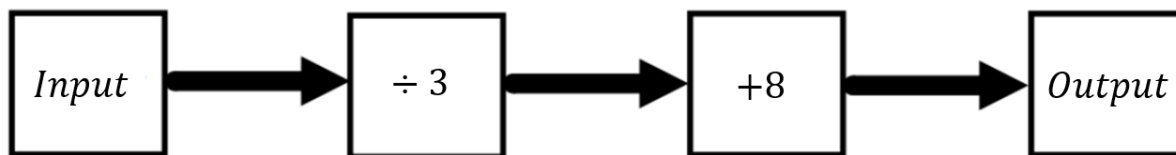
Q10. Find and simplify an expression for the perimeter of the following rectangle:



Answer: \_\_\_\_\_  
(3 marks)



Q11. Here is a number machine.



a) Work out an expression for the output if the input is  $t$ .

Answer: \_\_\_\_\_  
(1 mark)

b) Work out an expression for the input if the output is  $3w + 10$ .

Answer: \_\_\_\_\_  
(1 mark)



Q12. A box contains 100 packets of football stickers which mainly contain  $s$  stickers.  $w$  of the packets contain one extra bonus sticker.

Work out an expression for the total amount of stickers. Your answer should be simplified as far as possible.

Answer: \_\_\_\_\_

(3 marks)



Q13. Here is a menu in a café:

|         |       |
|---------|-------|
| Tea:    | 85p   |
| Coffee: | £1.70 |
| Cola:   | £1.10 |

Sally buys  $x$  teas, and  $y$  colas. She pays with a £10 note. Write down an expression for her change in pence.

Answer: \_\_\_\_\_  
(3 marks)