1 Write an algebraic expression for each statement.

(a) 12 plus the quotient of $7x$ by 10 (1)

(b) $\frac{3}{5}$ more than the product of x and $\frac{1}{3}$ (1)

(c) 6 minus the product of m and 0.4 (1)

(d) 8.2 less than the quotient of n by 8 (1)

(e) 2 more than x squared (1)

(5 marks)

2 Write an expression for the perimeter of each shape. Do not simplify your answer.

(a) A rectangle with sides x and 7 (1)

(b) A square with side b (1)

(c) A triangle with sides m, m and 5 (1)

(d) A rectangle with sides $2y$ and 3 (1)

(4 marks)

3 One mango costs m shillings and one chapati costs c shillings.

(a) Write an expression for the cost of 10 mangoes (1)

(b) Write an expression for the cost of 10 mangoes and 1 chapati (1)

(c) Write an expression for the cost of 3 mangoes and 4 chapatis (1)

(3 marks)

4 Kelly finished a race in 15 minutes. Lina ran more slowly and finished in q minutes.

(a) Which of the two times is the larger? (1)

(b) Write an expression for the difference in their times (1)

(2 marks)

5 **Write a story.** Each expression below could describe a real situation. Invent one for each, and say what the letter stands for.

(a) $3x - 2$ (2)

(b) $6x + 12$ (2)

(4 marks)

6 Sara had y oranges. She gave away 3 of them and then shared the rest equally among 4 friends.

(a) How many oranges were left after she gave 3 away? (1)

(b) Write an expression for how many each friend received (1)

(2 marks)