

- 1) Write an expression for the total cost of  $p$  pens if each pen costs £2.  
 $2p$
- 2) Write an expression for the total length of a rope if each section is  $m$  metres long and there are 5 sections.  
 $5m$
- 3) A box contains  $n$  apples. Write an expression for the number of apples in 4 boxes.  
 $4n$
- 4) An adult ticket to the cinema costs £ $t$ . A children's ticket costs £5 less than an adult ticket. Write an expression for the cost of a children's ticket.  
 $t - 5$
- 5) Tom has  $n$  sweets. James has 8 more sweets than Tom. Write an expression for the number of sweets James has.  
 $n + 8$
- 6) A banana costs  $x$  pence and an orange costs  $y$  pence. Write an expression for the total cost of 2 bananas and 3 oranges.  
 $2x + 3y$
- 7) A bottle costs £ $b$  and a container costs £ $p$ . Write an expression for the cost of 5 bottles and 2 containers.  
 $5b + 2p$
- 8) A taxi charges £3 plus £1.50 for every mile travelled. Write an expression for the total cost of a journey of  $m$  miles.  
 $1.5m + 3$
- 9) A cinema charges £6 per adult ticket and £4 per child ticket. Write an expression for the total cost of  $a$  adult tickets and  $c$  child tickets.  
 $6a + 4c$
- 10) A rectangle has length  $l$  cm and width  $w$  cm. Write an expression for its perimeter.  
 $2l + 2w$
- 11) A farmer sells eggs in boxes. Each box contains  $e$  eggs, and the farmer has  $b$  boxes. Write an expression for the total number of eggs.  
 $be$
- 12) A school buys  $n$  notebooks at £1.20 each and  $p$  pens at 50p each. Write an expression for the total cost.  
 $1.2n + 0.5p$
- 13) A coach trip costs £100 plus £ $x$  per person for entry tickets. Write an expression for the total cost for  $n$  people.  
 $nx + 100$
- 14) A rectangle has length 3 cm longer than its width  $w$ . Write an expression for its perimeter.  
 $4w + 6$
- 15) A person has  $p$  pens. They buy 4 more and then give away  $g$  pens. Write an expression for the number of pens they have left.  
 $p - g + 4$
- 16) A train ticket costs £ $t$ . There is a booking fee of £2 per order. Write an expression for the total cost of buying  $n$  tickets.  
 $n(t + 2)$
- 17) A rectangle has a length of  $2x$  cm and a width of  $(x + 4)$  cm. Write an expression for its area.  
 $2x(x + 4)$
- 18) A car rental costs £40 per day plus £0.20 for each mile driven. Write an expression for the cost of hiring the car for  $d$  days and driving  $m$  miles.  
 $40d + 0.2m$

19) In a game of darts, a player can score:

20 points for hitting a single digit

30 points for hitting a double digit

40 points for hitting a triple digit

50 points for a bullseye

In a game of darts, a player hits  $x$  single digits,  $y$  triple digits and  $z$  bullseyes.

Write an expression for the number of points the player scores.

$$20x + 40y + 50z$$

20) Charlie is  $x$  years old. Maria is 5 years older than Charlie. Sam is twice as old as Maria. Write a fully simplified expression for the sum of their ages.

Charlie:  $x$

Maria:  $x + 5$

Sam:  $2(x + 5) = 2x + 10$

$$x + x + 5 + 2x + 10$$

$$4x + 15$$