

ALGEBRAIC EXPRESSIONS

- 1) Write an expression for the total cost of p pens if each pen costs £2.
- 2) Write an expression for the total length of a rope if each section is m metres long and there are 5 sections.
- 3) A box contains n apples. Write an expression for the number of apples in 4 boxes.
- 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.
- 5) Tom has n sweets. James has 8 more sweets than Tom. Write an expression for the number of sweets James has.
- 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.
- 7) A bottle costs £ b and a container costs £ p . Write an expression for the cost of 5 bottles and 2 containers.
- 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.
- 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.
- 10) A rectangle has length l cm and width w cm. Write an expression for its perimeter.
- 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.
- 12) A school buys n notebooks at £1.20 each and p pens at 50p each. Write an expression for the total cost.
- 13) A coach trip costs £100 plus £ x per person for entry tickets. Write an expression for the total cost for n people.
- 14) A rectangle has length 3 cm longer than its width w . Write an expression for its perimeter.
- 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.
- 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.
- 17) A rectangle has a length of $2x$ cm and a width of $(x + 4)$ cm. Write an expression for its area.
- 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.
- 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.
- 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