

Algebraic Fractions and Formula

- 8. In each of the following, find the value of the unknown.
 - (a) $C = \frac{1}{2}bh$ If b = 15, C = 60, find h.
 - **(b)** $J = \frac{a+b}{2}$ If a = 19 and b = 23, find J.
- 9. In each of the following, make the letter in the brackets [] the subject of the formula.
 - (a) b = 2 + 3a [a]
 - **(b)** $E = \frac{1}{2}\pi rh [r]$

Change the subject of the following formula to the letter in the bracket []. (10-12)

10.
$$x = \frac{y}{2} + 9$$
 [y]

11.
$$t = \frac{d}{s}$$
 [s]

12.
$$I = \frac{P}{100}nr$$
 $[P]$

- 13. It is given that $\frac{1}{a} + \frac{1}{b} = \frac{1}{c}$.
 - (a) Change the subject of the formula to b.
 - **(b)** If a = 5 and c = 4, find b.