

Algebraic Fractions and Formula**Solution**

$$8. \text{ (a) } \therefore 60 = \frac{1}{2}(15)h$$
$$h = 8$$

$$\text{(b) } \therefore J = \frac{19+23}{2} = 21$$

$$9. \text{ (a) } 3a = b - 2$$
$$a = \frac{b-2}{3}$$

$$\text{(b) } 2E = \pi rh$$
$$\frac{2E}{\pi h} = r$$
$$r = \frac{2E}{\pi h}$$

$$10. \quad x = \frac{y+18}{2}$$
$$2x = y + 18$$
$$y = 2x - 18$$

$$11. \quad ts = d$$
$$s = \frac{d}{t}$$

$$12. \quad 100I = Pnr$$
$$P = \frac{100I}{nr}$$

$$13. \text{ (a) } \frac{1}{b} = \frac{1}{c} - \frac{1}{a}$$
$$\frac{1}{b} = \frac{a-c}{ac}$$
$$b = \frac{ac}{a-c}$$

$$\text{(b) } b = \frac{5 \times 4}{5-4} = 20$$