

- 11 Without using a calculator, work out $\frac{6}{7} \div 1\frac{2}{3}$.

Write down all the steps in your working.

$$\frac{6}{7} \div \frac{5}{3} = \frac{6}{7} \times \frac{3}{5} = \frac{18}{35}$$

Answer $\frac{18}{35}$ [3]

- 12 Solve the equation.

$$5(2y - 17) = 60$$

$$10y - 85 = 60$$

$$10y = 145$$

$$y = 14.5$$

Answer $y = 14.5$ [3]

- 13 Carol invests \$6250 at a rate of 2% per year compound interest.

Calculate the total amount Carol has after 3 years.

$$F = P(1 + i\%)^3$$

$$F = 6250(1 + 0.02)^3 = 6632.55$$

F = final value
P = present value

Answer \$ 6632.55 [3]

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M Carnoy



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