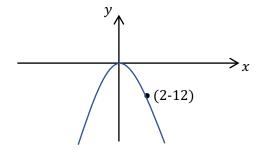
National 5

Short Task 34

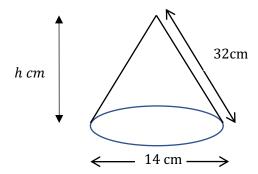
- 1. Evaluate $2\frac{3}{4} + 1\frac{5}{6} 2\frac{1}{3}$
- 2. The graph below has equation $y = ax^2$. Work out value of a



- 3. A fast food chain sells approximately 2.36×10^9 burgers every year. This is equal to 1.35×10^{12} calories. Work out how many calories are in each burger.
- 4. A function has equation f(x) = 9x + 5. If f(a) = 32, find the value of a.
- 5. Fully factorise $3t^2 48$ and hence simplify $\frac{3t^2 48}{2t^2 3t 20}$.
- 6. Due to a manufacturing fault, a company is forced to reduce the price of a product by 15%. It now sells the product for £68.

What is the full price of the product without the fault?

7. a) Calculate the height, h cm of the cone below



7 b) Calculate its volume correct to 2 significant figures.