

An employee charged with topping up an oil reservoir is given the following instructions:

```
while the reservoir contains less than 20 litres do  
    if the reservoir contains less than 16 litres then  
        add a 5 litre can of oil to the reservoir  
    else  
        add a 1 litre can of oil to the reservoir  
    endif  
endwhile
```

- a) How much oil will the reservoir wind up containing if it initially contains 14.5 litres of oil?
- b) How much oil will the reservoir wind up containing if it initially contains 20.1 litres of oil?
- c) Draw a flow chart for the instructions.