

# Christmas roast

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This task is about an equation for cooking a roast.



Maaka is cooking Christmas roast. The recipe book says "Cook for 40 minutes for each kilogram of meat plus an extra 20 minutes".

$t$  is the total cooking time (in minutes)

$w$  is the weight of the roast (in kilograms).

Complete this formula to show how the cooking time varies according to the weight of the meat.

a)

$$T = \underline{\hspace{2cm}}$$

b) How many minutes will it take to cook a roast that weighs

i) 3kg? \_\_\_\_\_ minutes

ii) 1.5 kg? \_\_\_\_\_ minutes

c) If a roast took 200 minutes to cook, what would it weigh? \_\_\_\_\_ kg