

# Christmas turkey

This task is about working out how long to cook turkeys of different sizes and completing a rule to describe this relationship.



Tanu's Turkeys provides this chart showing how long to cook turkeys of different sizes. The larger the turkey, the longer it takes to cook.

Size of turkey	No. 2	No. 3	No. 4
Cooking time (in hours)	$1\frac{3}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$

a) Tanu's Turkeys raised some extra large turkeys. Show how long a No. 6 turkey should cook for.

Cooking time = \_\_\_\_\_ hour(s)

b) If a turkey needs to be cooked for  $8\frac{1}{2}$  hours, show how to work out what size it would be.

Size \_\_\_\_\_

c) Describe how to work out the cooking time for a turkey of any size.

d) If you know the size of a turkey ( $x$ ), complete this equation so that it gives the cooking time ( $y$ ) the turkey needs.

$y =$  \_\_\_\_\_