

Mathematics

# **Expressions, equations and inequalities**

## **Forming and exploring equations**

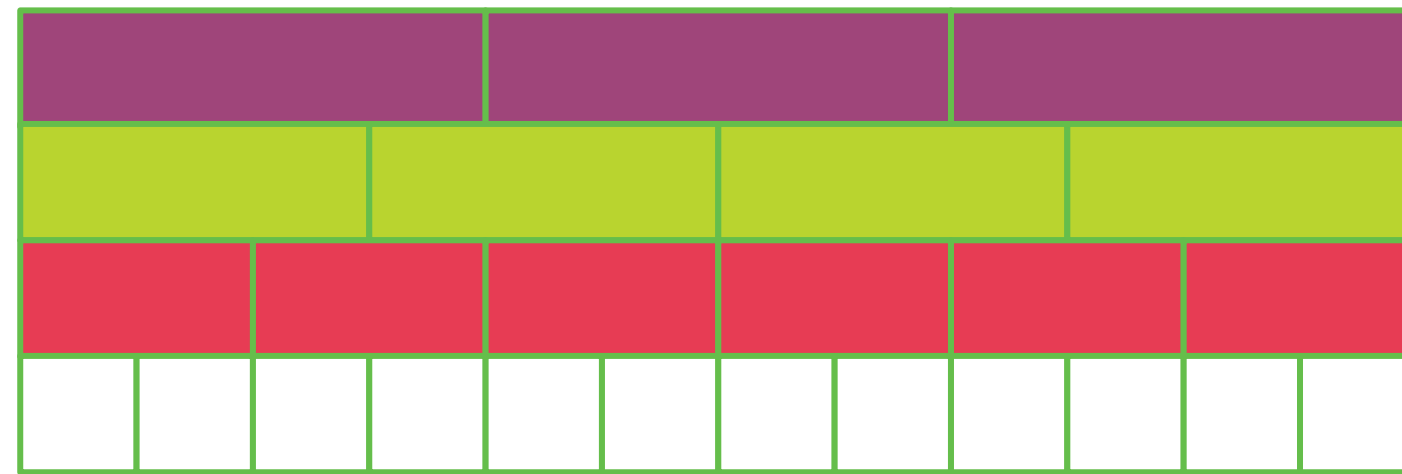
### **Independent Task**

Ms Jones



# Try This

Find the value of each of the remaining rods in each of the following cases:



- ☐ A The white rod has a value of 5      ☐ B The red rod has a value of 12
- ☐ C The white rod has a value of  $w$

(The length of each rod is proportional to its value. The rods have a positive value.)



# Independent task

1. Complete the following equations:

a)  $4 + \underline{\quad} = 3 \times 4$

b)  $10 - (-3) = 10 + \underline{\quad}$

c)  $12 \div \underline{\quad} = 1 + 5$

2. Given that  $r = 2w$  and  $g = w + r$ , complete the following equations:

a)  $r + w = \underline{\quad}w$

b)  $\underline{\quad}w = r + 2w$

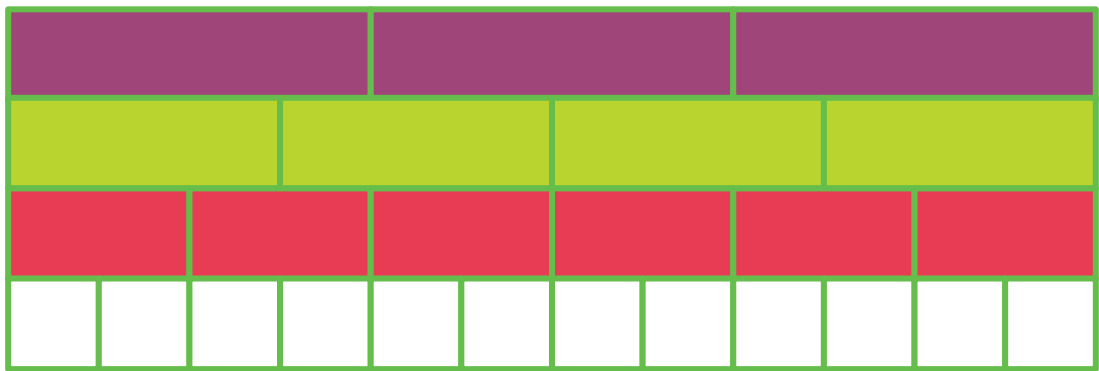
c)  $r + 2w = \underline{\quad}r$

d)  $r + g = 2r + \underline{\quad}w$



# Explore

Decide whether each of the following equations are true or false.  
Correct the false statements.



$r + w = 3w$

$p = r + w$

$12r = 6w$

$p - r = g$

$4p = 4(g + w)$

