

Crossnumber: Proportion



Work in pairs. Every answer is a whole number, one digit per square. Where an across answer crosses a down answer the digit has to agree. Use that to check your work as you go.

Across

- 1 y is directly proportional to x . When $x = 2$, $y = 14$. Find y when $x = 39$.
- 3 y is directly proportional to x . When $x = 6$, $y = 66$. Find y when $x = 27$.
- 5 y is inversely proportional to x . When $x = 10$, $y = 39$. Find y when $x = 2$.
- 7 y is inversely proportional to x . When $x = 11$, $y = 78$. Find y when $x = 2$.
- 9 y is inversely proportional to x . When $x = 12$, $y = 93$. Find y when $x = 2$.
- 11 y is inversely proportional to x . When $x = 4$, $y = 59$. Find $x \times y$.
- 13 y is inversely proportional to x . When $x = 10$, $y = 83$. Find y when $x = 2$.
- 14 y is directly proportional to x . When $x = 2$, $y = 12$. Find y when $x = 26$.

Down

- 1 y is inversely proportional to x . When $x = 9$, $y = 87$. Find y when $x = 3$.
- 2 3 tickets cost £195. How many pounds do 5 tickets cost?
- 3 y is inversely proportional to x . When $x = 12$, $y = 61$. Find y when $x = 3$.
- 4 A square of side 9 cm is enlarged by scale factor 3. Find the area of the image in cm^2 .
- 6 6 tickets cost £510. How many pounds do 11 tickets cost?
- 8 y is inversely proportional to x . When $x = 12$, $y = 71$. Find y when $x = 4$.
- 9 y is inversely proportional to x . When $x = 12$, $y = 89$. Find y when $x = 2$.
- 10 6 tickets cost £570. How many pounds do 9 tickets cost?
- 11 y is directly proportional to x . When $x = 8$, $y = 56$. Find y when $x = 33$.
- 12 y is inversely proportional to x . When $x = 12$, $y = 58$. Find $x \times y$.

1		2		3		4
5	6			7	8	
9		10		11		12
13				14		