

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 $x = 39$. 273
- 3** y is directly proportional to x . When $x = 6$, $y = 66$. Find y when $x = 27$. 297
- 5** y is inversely proportional to x . When $x = 10$, $y = 39$. Find y when $x = 2$. 195
- 7** y is inversely proportional to x . When $x = 11$, $y = 78$. Find y when $x = 2$. 429
- 9** y is inversely proportional to x . When $x = 12$, $y = 93$. Find y when $x = 2$. 558
- 11** y is inversely proportional to x . When $x = 4$, $y = 59$. Find $x \times y$. 236
- 13** y is inversely proportional to x . When $x = 10$, $y = 83$. Find y when $x = 2$. 415
- 14** y is directly proportional to x . When $x = 2$, $y = 12$. Find y when $x = 26$. 156

Down

- 1** y is inversely proportional to x . When $x = 9$, $y = 87$. Find y when $x = 3$. 261
- 2** 3 tickets cost £195. How many pounds do 5 tickets cost? 325
- 3** y is inversely proportional to x . When $x = 12$, $y = 61$. Find y when $x = 3$. 244
- 4** A square of side 9 cm is enlarged by scale factor 3. Find the area of the image in cm^2 . 729
- 6** 6 tickets cost £510. How many pounds do 11 tickets cost? 935
- 8** y is inversely proportional to x . When $x = 12$, $y = 71$. Find y when $x = 4$. 213
- 9** y is inversely proportional to x . When $x = 12$, $y = 89$. Find y when $x = 2$. 534
- 10** 6 tickets cost £570. How many pounds do 9 tickets cost? 855
- 11** y is directly proportional to x . When $x = 8$, $y = 56$. Find y when $x = 33$. 231
- 12** y is inversely proportional to x . When $x = 12$, $y = 58$. Find $x \times y$. 696

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