

Crossnumber: Pythagoras

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** A rectangular poster has a diagonal of 527 mm and a length of 465 mm. Find its width in mm. **248**
- 3** The hypotenuse of a right-angled triangle is 401 cm. One of the other sides is 40 cm. Find the third side in cm. **399**
- 5** A drone flies 132 m west, then 55 m south. How far is it from the start, in metres? **143**
- 7** An isosceles triangle has two sides of 205 cm and a base of 312 cm. Find its perpendicular height in cm. **133**
- 9** A rowing boat goes 612 m east, then 35 m north. How far is it from the start, in metres? **613**
- 11** An isosceles triangle has two sides of 970 cm and a base of 372 cm. Find its perpendicular height in cm. **952**
- 13** Find the distance between the points $(-51, -23)$ and $(337, -314)$. **485**
- 14** Find the distance between the points $(53, 4)$ and $(872, 544)$. **981**

Down

- 1** The hypotenuse of a right-angled triangle is 229 cm. One of the other sides is 60 cm. Find the third side in cm. **221**
- 2** Find the distance between the points $(45, 42)$ and $(630, -606)$. **873**
- 3** A drone flies 196 m east, then 315 m north. How far is it from the start, in metres? **371**
- 4** A drone flies 355 m north, then 852 m west. How far is it from the start, in metres? **923**
- 6** The hypotenuse of a right-angled triangle is 455 cm. One of the other sides is 112 cm. Find the third side in cm. **441**
- 8** The hypotenuse of a right-angled triangle is 949 cm. One of the other sides is 876 cm. Find the third side in cm. **365**
- 9** A rowing boat goes 240 m west, then 576 m south. How far is it from the start, in metres? **624**
- 10** A rectangular field is 316 m long and 237 m wide. Find the length of its diagonal in m. **395**
- 11** Find the distance between the points $(33, 9)$ and $(768, -607)$. **959**
- 12** A drone flies 216 m east, then 195 m north. How far is it from the start, in metres? **291**

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