Year 5 Summer-Themed

Maths Activity Booklet

Answers

Place Value Code Breaker

									
2	4	8	6	1	0	5	9	3	7

In the number						what is the value of the  ?

Answer: **5000**

In the number						what is the value of the  ?

Answer: **0.6 or $\frac{6}{10}$**

In the number						what is the value of the  ?

Answer: **0.007 or $\frac{7}{1000}$**

What is the number						rounded to the nearest 10?

Answer: **83 620**

What is the number						rounded to the nearest 100?

Answer: **20 300**

What is the number				written in Roman numerals?

Answer: **CXLII**

Calculations Code Breaker

Solve the calculations and use the code breaker to spell out a summer-themed joke. The joke will read down the tables.

A	B	C	D	E	F	G	H	I	J	K	L	M
6	15	21	5	13	24	18	7	12	1	25	19	9

N	O	P	Q	R	S	T	U	V	W	X	Y	Z
22	16	11	26	2	17	20	3	10	8	14	23	4

	Answer	Letter
64 ÷ 8	**8**	**W**
63 ÷ 9	**7**	**H**
1300 ÷ 100	**13**	**E**
0.02 × 100	**2**	**R**
1.3 × 10	**13**	**E**

	Answer	Letter
55 ÷ 11	**5**	**D**
160 ÷ 10	**16**	**O**

	Answer	Letter
0.24 × 100	**24**	**F**
144 ÷ 12	**12**	**I**
1700 ÷ 100	**17**	**S**
56 ÷ 8	**7**	**H**

	Answer	Letter
1.8 × 10	**18**	**G**
1600 ÷ 100	**16**	**O**

	Answer	Letter
4 × 4	**16**	**O**
2.2 × 10	**22**	**N**

	Answer	Letter
42 ÷ 6	**7**	**H**
8 × 2	**16**	**O**
190 ÷ 10	**19**	**L**
96 ÷ 8	**12**	**I**
0.5 × 10	**5**	**D**
48 ÷ 8	**6**	**A**
0.23 × 100	**23**	**Y?**

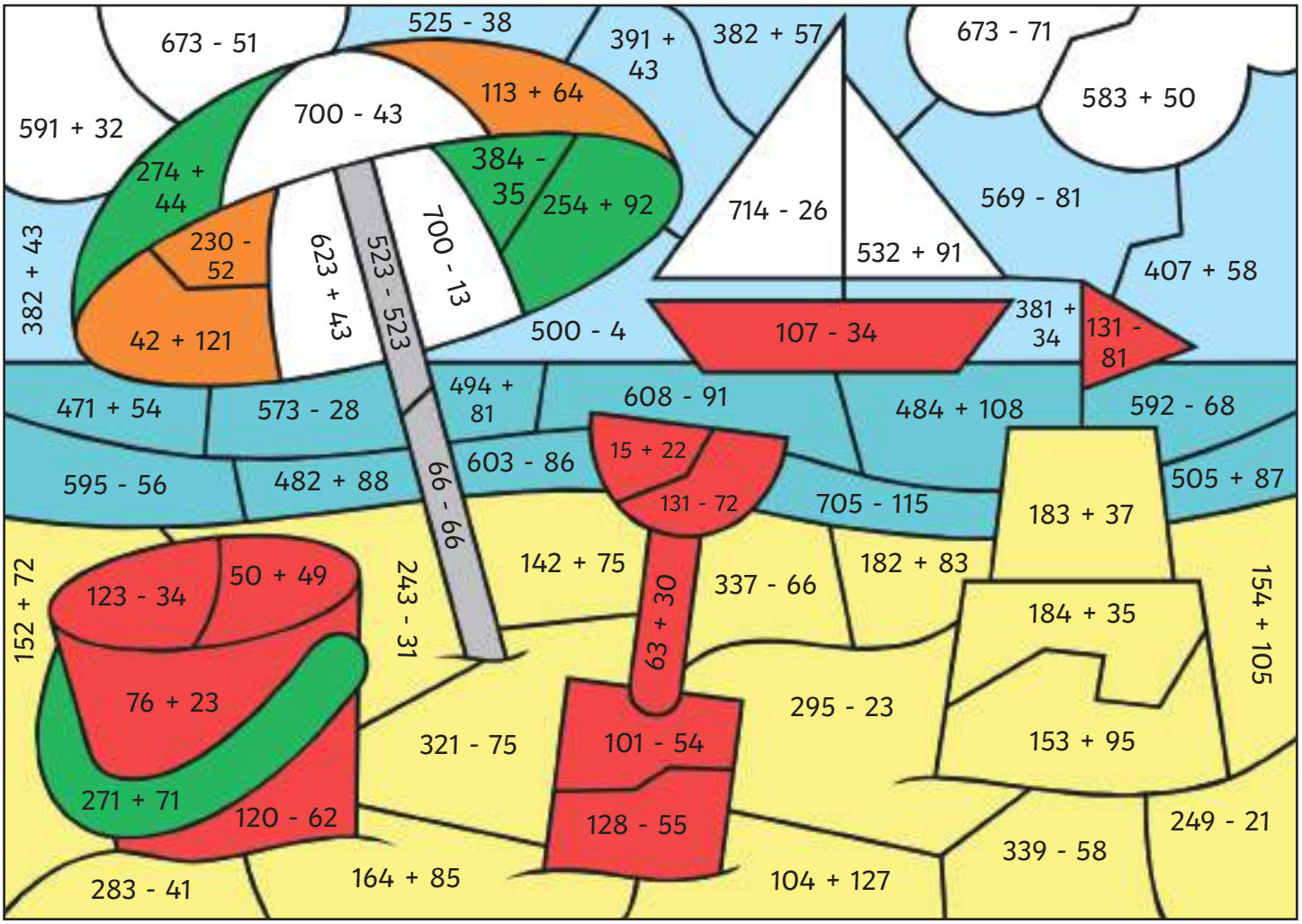
	Answer	Letter
3 × 8	**24**	**F**
60 ÷ 5	**12**	**I**
0.22 × 100	**22**	**N**
1900 ÷ 100	**19**	**L**
54 ÷ 9	**6**	**A**
11 × 2	**22**	**N**
0.05 × 100	**5**	**D**

Question: **Where do fish go on holiday?**

Punchline: **Finland**

Colour by Calculation

Use the key to colour the summer-themed picture.



Grey:	Red:	Orange:	Yellow:	Green:	Light Blue:	Dark Blue:	White:
0	1 – 100	101 – 200	201 – 300	301 – 400	401 – 500	501 – 600	601 – 700

Number Cross

Use the summer-themed code to complete the number cross. Use written methods of multiplication to solve the number cross.

				2 2			1 3	0	0
				6			1		
		4 2		8			3 2	5	8
		5 6	9	6 8	4		7 1	6	4
8 3	3	0		0			8		0
		4		9 1	7	10 4	3		
						0			
				11 8	5	8			
						8			

Across

1. 75 × 4 = **300**
3. 43 × 6 = **258**
5. 72 × 97 = **6984**
7. 82 × 2 = **164**
8. 30 × 11 = **330**
9. 83 × 21 = **1743**
11. 66 × 13 = **858**

Down

1. 45 × 7 = **315**
2. 61 × 44 = **2684**
3. 80 × 3 = **240**
4. 93 × 28 = **2604**
6. 89 × 9 = **801**
7. 61 × 3 = **183**
10. 73 × 56 = **4088**

									
2	4	8	6	1	0	5	9	3	7

Summertime Equivalent Fractions Maths Mosaic

Simplify each fraction to its lowest term to reveal the hidden picture. Each answer has a special colour.

yellow = $\frac{2}{3}$ | black = $\frac{3}{4}$ | pink = $\frac{2}{5}$ | green = $\frac{5}{6}$ | blue = $\frac{1}{3}$

$\frac{2}{6}$	$\frac{3}{9}$	$\frac{4}{6}$	$\frac{8}{12}$	$\frac{12}{18}$	$\frac{10}{15}$	$\frac{6}{9}$	$\frac{5}{15}$	$\frac{6}{18}$
$\frac{4}{12}$	$\frac{14}{21}$	$\frac{18}{27}$	$\frac{22}{33}$	$\frac{20}{30}$	$\frac{16}{24}$	$\frac{4}{6}$	$\frac{8}{12}$	$\frac{7}{21}$
$\frac{6}{8}$	$\frac{30}{40}$	$\frac{9}{12}$	$\frac{27}{36}$	$\frac{12}{16}$	$\frac{24}{32}$	$\frac{15}{20}$	$\frac{21}{28}$	$\frac{18}{24}$
$\frac{6}{9}$	$\frac{33}{44}$	$\frac{36}{48}$	$\frac{39}{52}$	$\frac{14}{21}$	$\frac{42}{56}$	$\frac{45}{60}$	$\frac{48}{64}$	$\frac{18}{27}$
$\frac{12}{18}$	$\frac{10}{15}$	$\frac{51}{68}$	$\frac{22}{33}$	$\frac{20}{30}$	$\frac{16}{24}$	$\frac{54}{72}$	$\frac{4}{6}$	$\frac{8}{12}$
$\frac{14}{21}$	$\frac{18}{27}$	$\frac{22}{33}$	$\frac{20}{30}$	$\frac{16}{24}$	$\frac{4}{6}$	$\frac{8}{12}$	$\frac{12}{18}$	$\frac{10}{15}$
$\frac{4}{6}$	$\frac{8}{12}$	$\frac{12}{18}$	$\frac{10}{15}$	$\frac{6}{9}$	$\frac{14}{21}$	$\frac{18}{27}$	$\frac{22}{33}$	$\frac{20}{30}$
$\frac{22}{33}$	$\frac{20}{30}$	$\frac{4}{10}$	$\frac{6}{15}$	$\frac{8}{20}$	$\frac{10}{25}$	$\frac{12}{30}$	$\frac{4}{6}$	$\frac{8}{12}$
$\frac{10}{12}$	$\frac{14}{21}$	$\frac{18}{27}$	$\frac{14}{35}$	$\frac{16}{40}$	$\frac{18}{45}$	$\frac{6}{9}$	$\frac{14}{21}$	$\frac{35}{42}$
$\frac{15}{18}$	$\frac{20}{24}$	$\frac{4}{6}$	$\frac{8}{12}$	$\frac{12}{18}$	$\frac{10}{15}$	$\frac{6}{9}$	$\frac{25}{30}$	$\frac{30}{36}$

Summer Number Puzzles

I collect some shells on the beach.

I multiply the number of shells by 5.

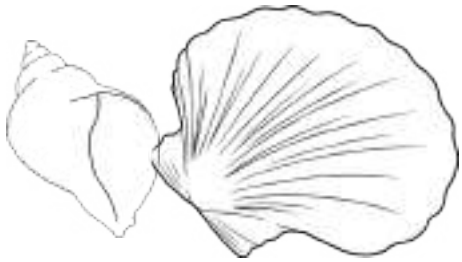
I then subtract 15,

multiply by 7,

and divide by 2.

I end with the number 735.

How many shells did I collect? **45 shells**



I decorate my sandcastle with flags.

I multiply the number of flags by 7.

I then add 78,

multiply by 4,

and divide by 3.

I end with the number 300.

How many flags did I use to decorate my sandcastle? **21 flags**

I practise cartwheels on the sand.

I multiply the number of cartwheels by 8.

I then subtract 132,

multiply by 10,

and divide by 4.

I end with the number 30.

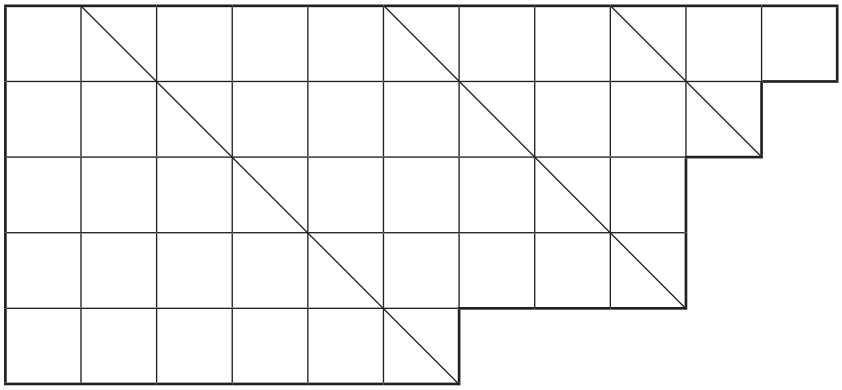
How many cartwheels did I do?
18 cartwheels

Pirate Flags

These flags have been designed on cm square grids.

- What is the area of each flag?
- What is the perimeter of each flag?

Colour in the flags according to the fractions.



Red = $\frac{1}{3}$ **15 squares**

Green = $\frac{1}{6}$ **7.5 squares**

Blue = $\frac{1}{2}$ **22.5 squares**

Area = **45cm²**

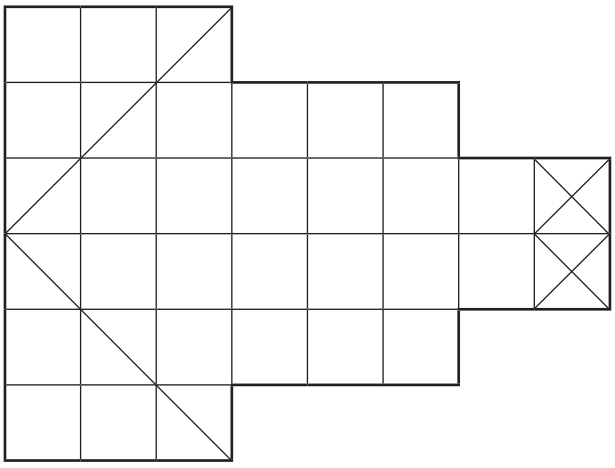
Perimeter = **32cm**

Red = $\frac{1}{4}$ **8.5 squares**

Green = $\frac{1}{8}$ **4.25 squares**

Blue = $\frac{1}{2}$ **17 squares**

White = $\frac{1}{8}$ **4.25 squares**

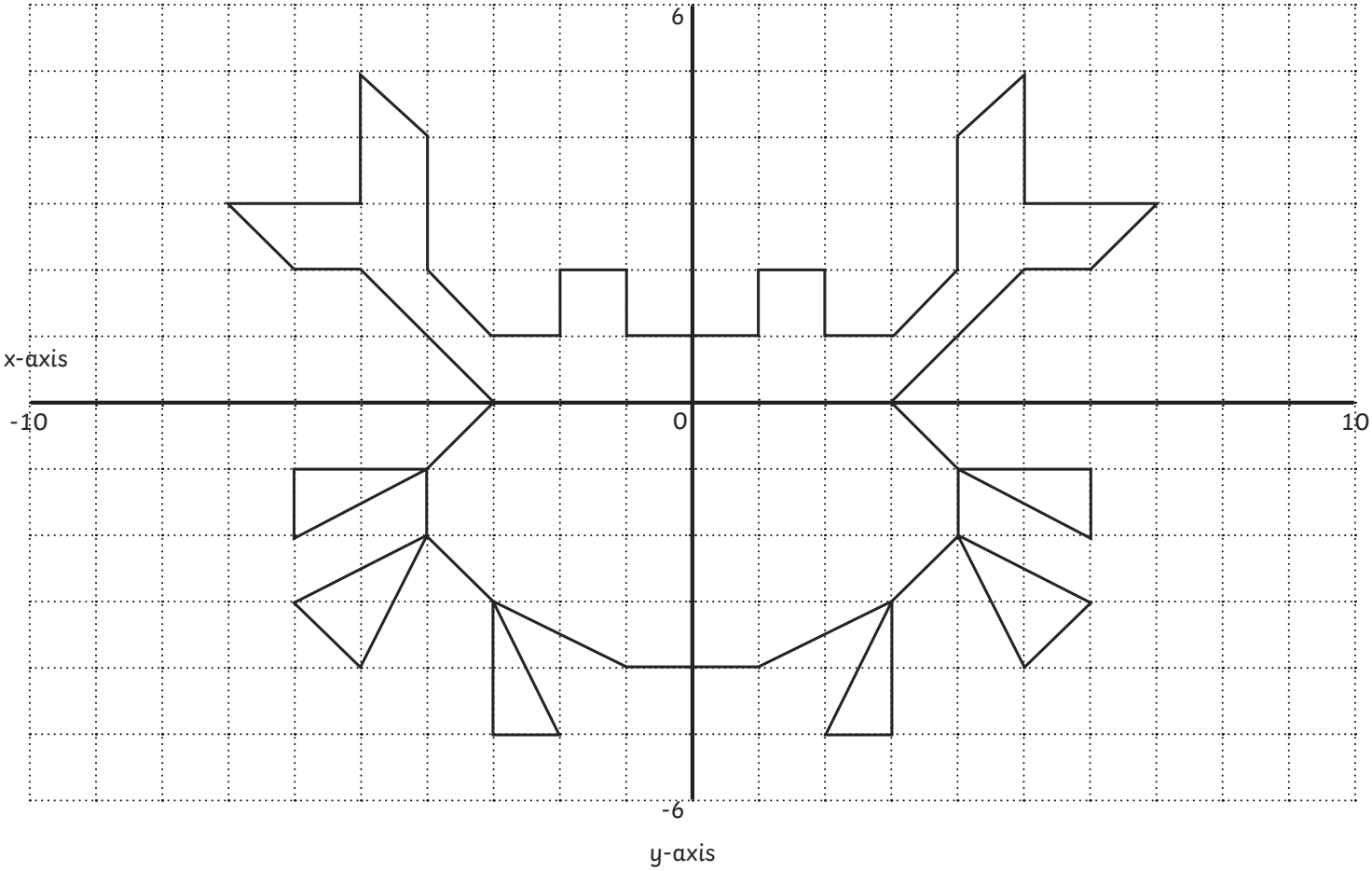


Area = **34cm²**

Perimeter = **28cm**

Coordinate and Reflection Mystery Picture

Plot these shapes onto the coordinate grid and join them together with straight lines. Next, reflect the shapes over the y-axis to reveal a mystery picture.



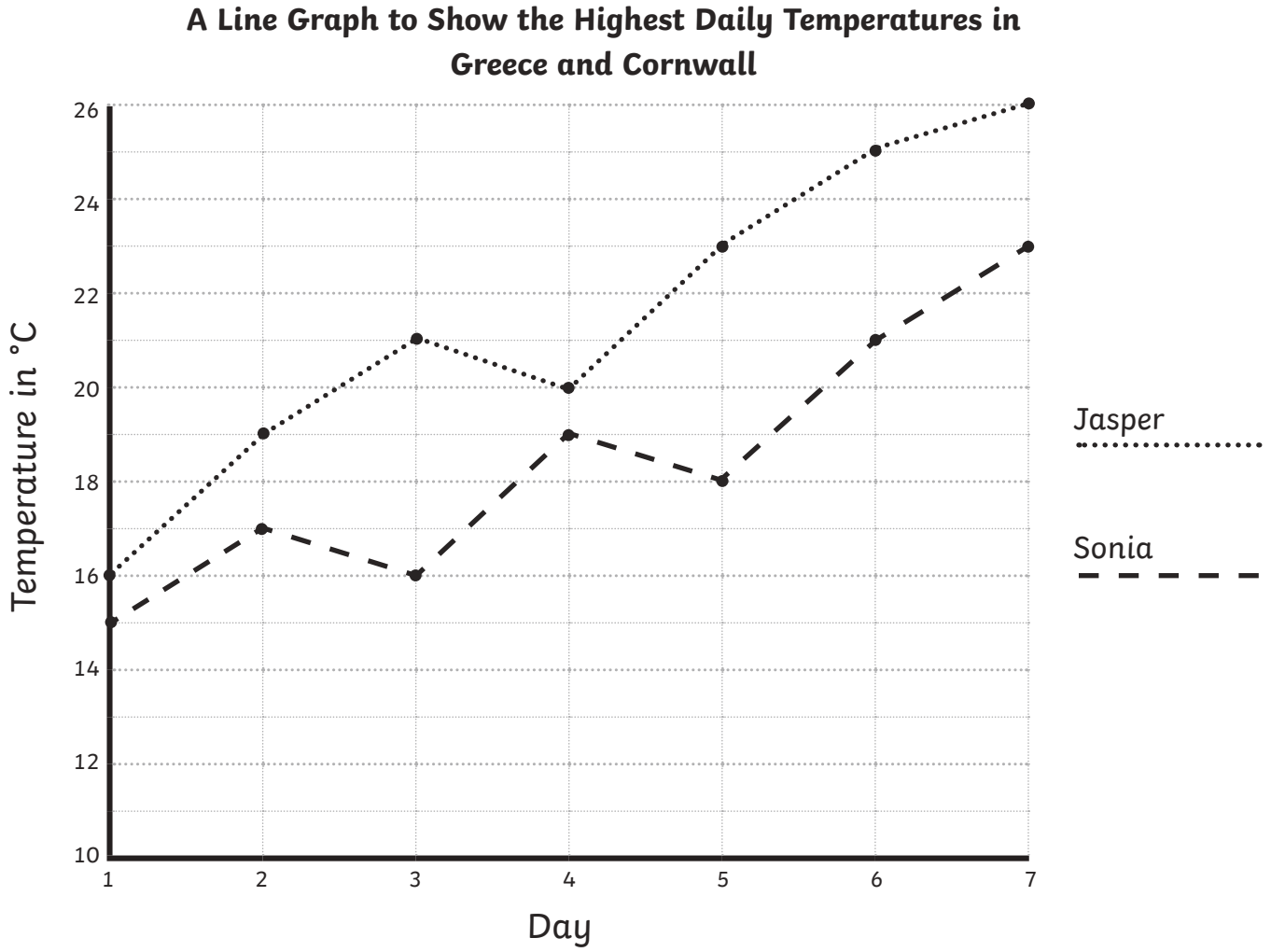
1. (-7, 3), (-5, 3), (-5, 5), (-4, 4), (-4, 2), (-3, 1), (-2, 1), (-2, 2), (-1, 2), (-1, 1), (0,1), (0,-4), (-1,-4), (-3,-3), (-4,-2), (-4,-1), (-3, 0), (-5, 2), (-6, 2), (-7, 3)
2. (-4, -1), (-6, -1), (-6, -2), (-4, -1)
3. (-4, -2), (-6, -3), (-5, -4), (-4, -2)
4. (-3, -3), (-3, -5), (-2, -5), (-3, -3)

The mystery picture is **a crab**

Summer Holiday Temperatures Line Graph

Jasper went on his summer holiday to Greece. Sonia went on her summer holiday to Cornwall. Here is a line graph showing the highest daily temperature on each day of their summer holidays.

Use the graph to answer the questions.



1. What was the temperature on day 4 of Jasper's holiday? **20°C**	2. What was the temperature on day 1 on Sonia's holiday? **15°C**
3. What was the difference in temperature between Greece and Cornwall on day 3? **5°C**	4. How much warmer was it in Greece than Cornwall on day 7? **3°C**
5. On which day was the temperature of Sonia's holiday 21°C? **Day 6**	6. On which day did the temperature in Greece decrease? **Day 4**