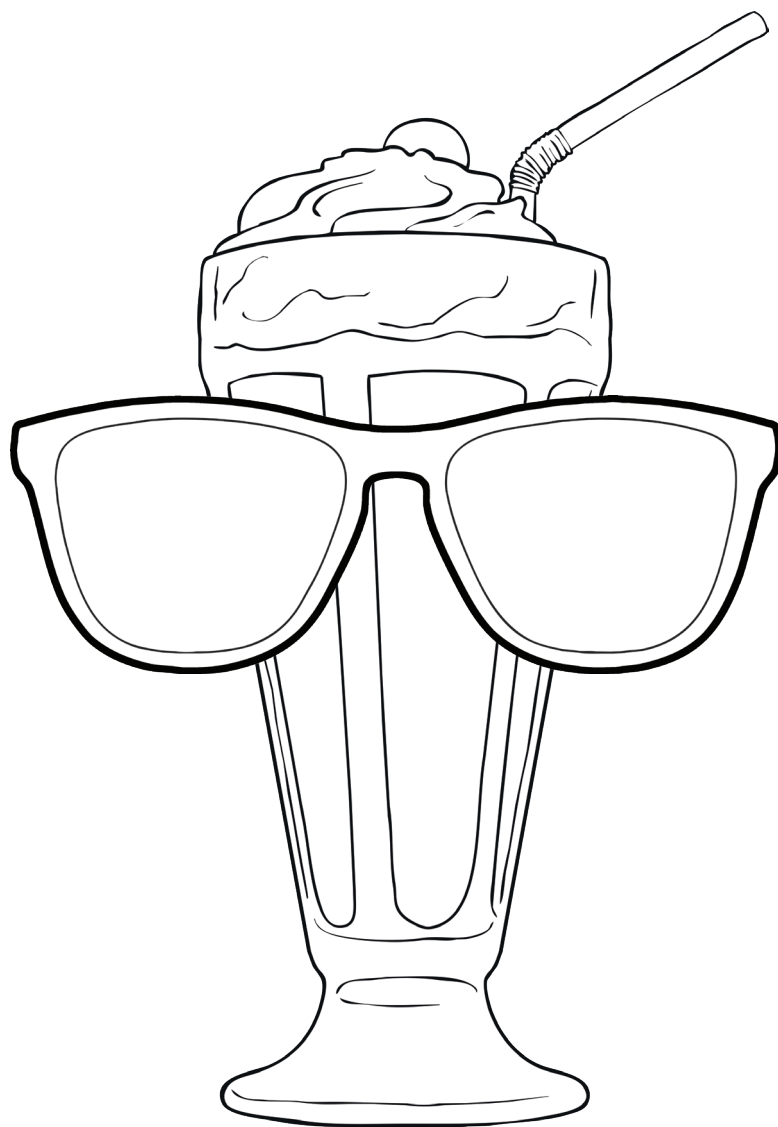


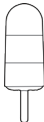
Year 5 Summer-Themed

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
$64 \div 8$	8	W
$63 \div 9$	7	H
$1300 \div 100$	13	E
0.02×100	2	R
1.3×10	13	E

	Answer	Letter
$55 \div 11$	5	D
$160 \div 10$	16	O

	Answer	Letter
0.24×100	24	F
$144 \div 12$	12	I
$1700 \div 100$	17	S
$56 \div 8$	7	H

	Answer	Letter
1.8×10	18	G
$1600 \div 100$	16	O

	Answer	Letter
4×4	16	O
2.2×10	22	N

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

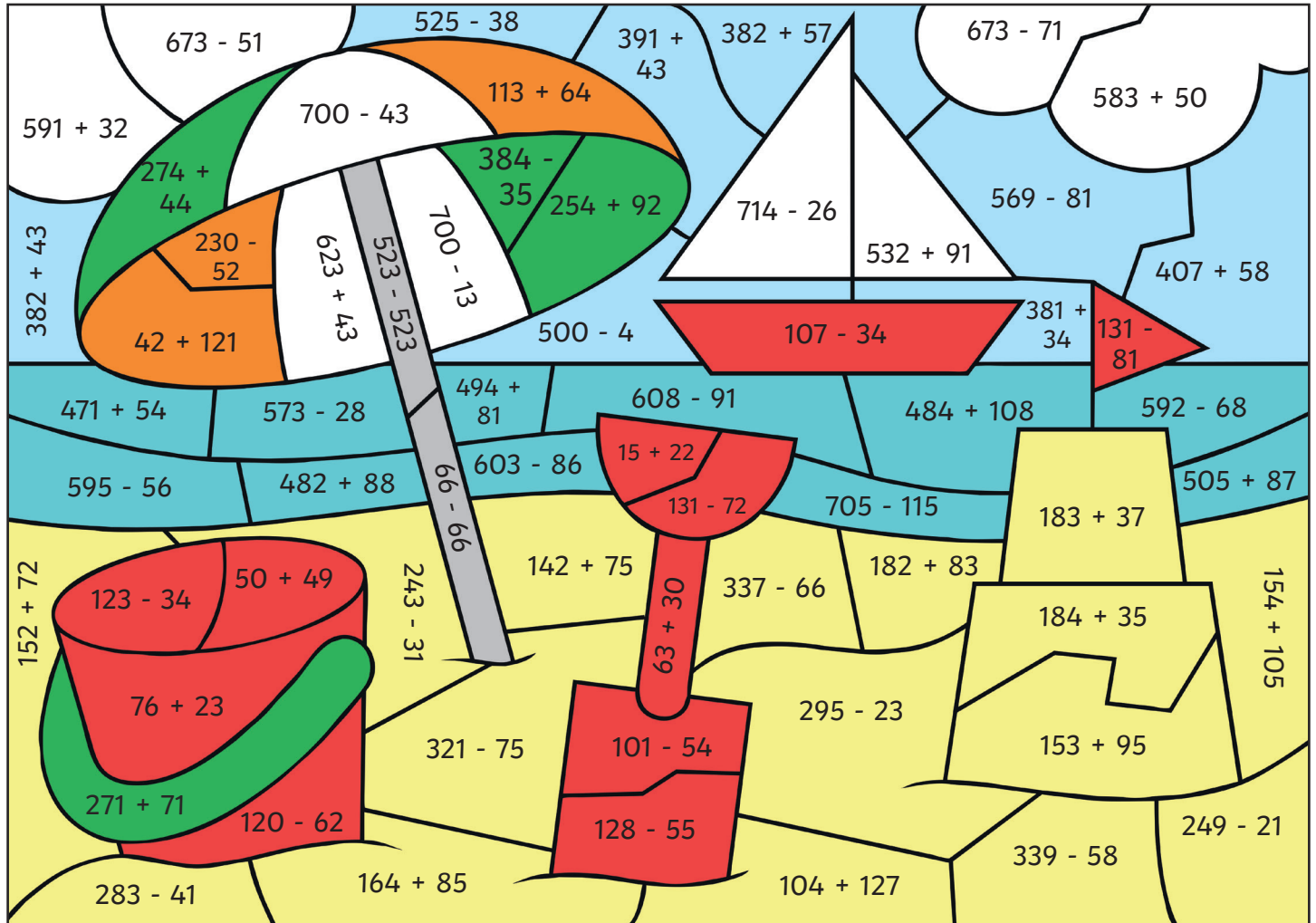
	Answer	Letter
3×8	24	F
$60 \div 5$	12	I
0.22×100	22	N
$1900 \div 100$	19	L
$54 \div 9$	6	A
11×2	22	N
0.05×100	5	D

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

Punchline: **Finland**

Colour by Calculation

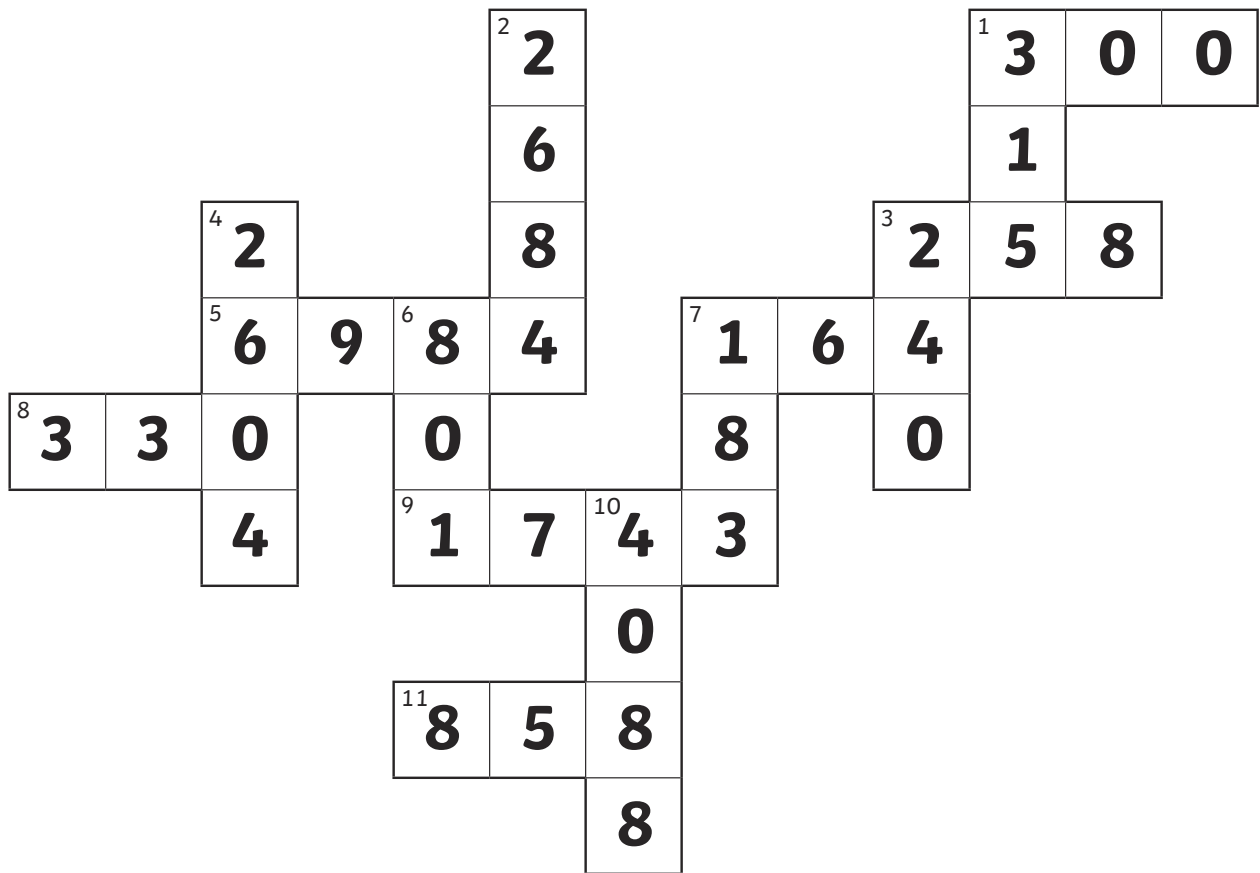
Use the key to colour the summer-themed picture.



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.



Across

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

Down

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

									
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.

$$\text{yellow} = \frac{2}{3}$$

$$\text{black} = \frac{3}{4}$$

$$\text{pink} = \frac{2}{5}$$

$$\text{green} = \frac{5}{6}$$

$$\text{blue} = \frac{1}{3}$$

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

Summer Number Puzzles

I collect some shells on the beach.

I multiply the number of shells by 5.

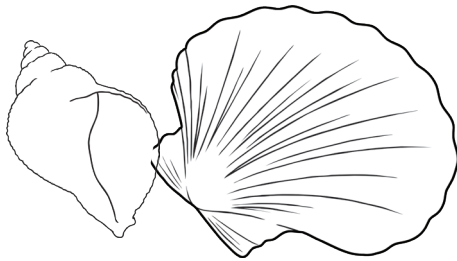
I then subtract 15,

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.

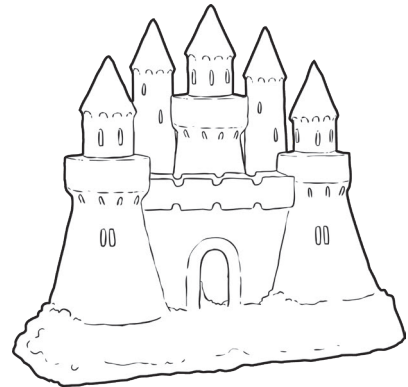
I then add 78,

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,

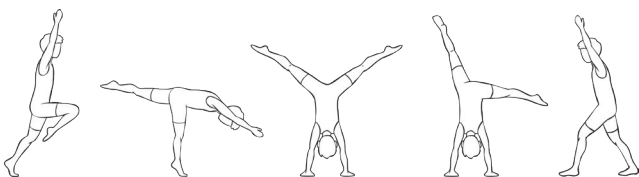
multiply by 10,

and divide by 4.

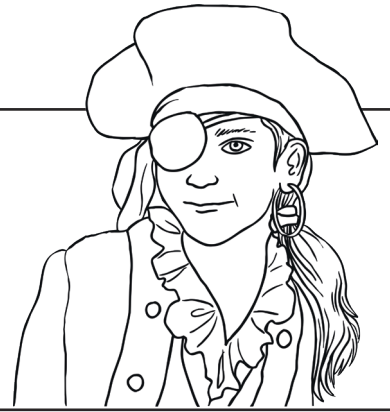
I end with the number 30.

How many cartwheels did I do?

18 cartwheels



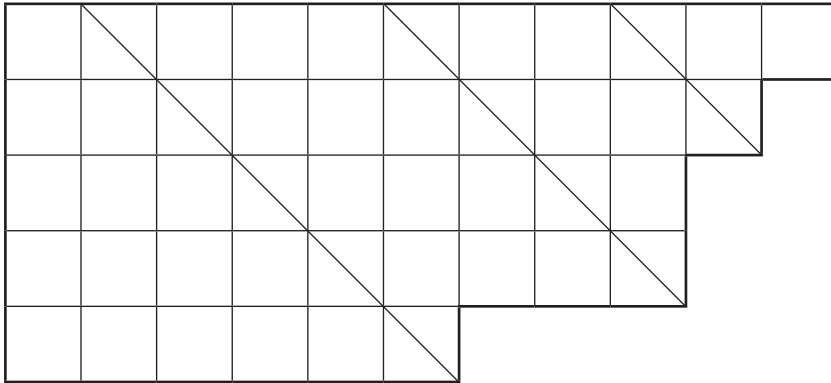
Pirate Flags



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**

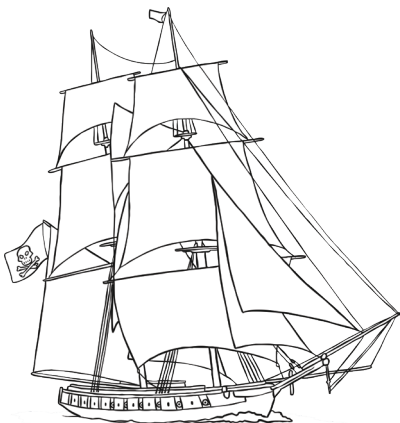
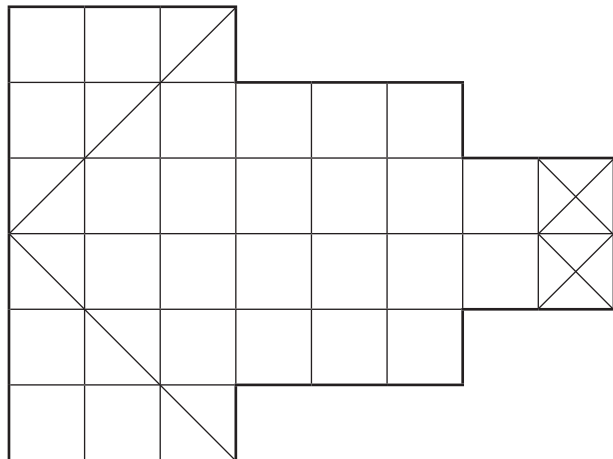
Perimeter = **32cm**

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**



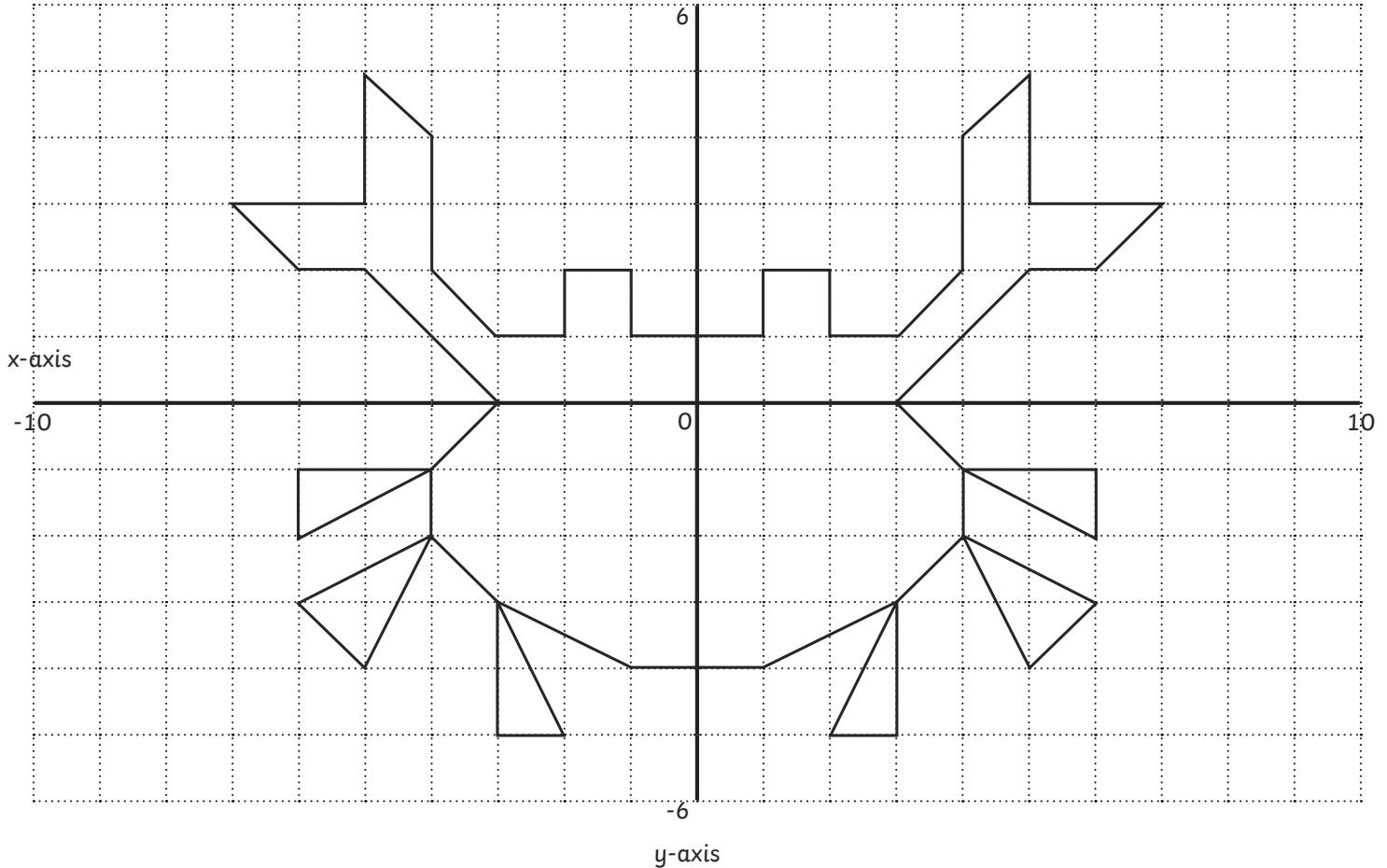
Area = **34cm²**

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

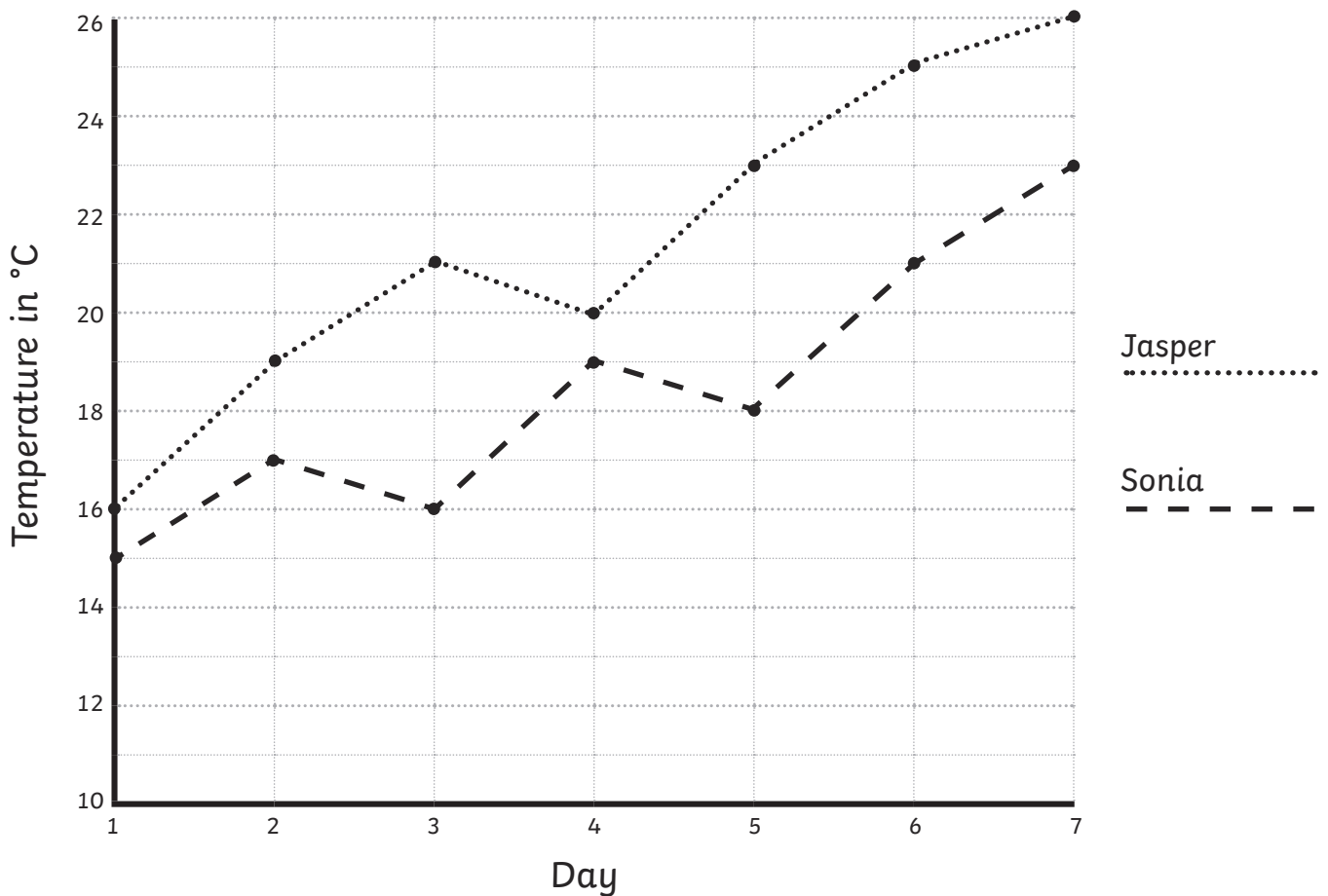
Summer Holiday Temperatures

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.

A Line Graph to Show the Highest Daily Temperatures in Greece and Cornwall



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