

Year 6 Summer-Themed

Maths Activity Booklet

Answers



Place Value Code Breaker

									
3	1	6	5	4	0	8	7	2	9

What is the number						rounded to the nearest 10?
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Answer: 62 550

What is the number						rounded to the nearest 100?
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Answer: 30 200

What is the number						rounded to the nearest 1000?
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Answer: 50 000

What is the number					written in Roman numerals?
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Answer: MMMCLVII

What is the number					written in Roman numerals?
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Answer: MDXIV

What is the number					written in Roman numerals?
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Answer: MMLXVI

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
$\frac{2}{5}$ of 20	8	W
$\frac{1}{7}$ of 49	7	H
$\frac{1}{2}$ of 46	23	Y

	Answer	Letter
$\frac{1}{6}$ of 30	5	D
$\frac{4}{5}$ of 20	16	O

	Answer	Letter
$\frac{5}{6}$ of 18	15	B
$\frac{2}{6}$ of 18	6	A
$\frac{2}{3}$ of 33	22	N
$\frac{1}{4}$ of 24	6	A
$\frac{1}{2}$ of 44	22	N
$\frac{1}{5}$ of 30	6	A
$\frac{1}{2}$ of 34	17	S

	Answer	Letter
$\frac{1}{8}$ of 24	3	U
$\frac{1}{3}$ of 51	17	S
$\frac{1}{3}$ of 39	13	E

	Answer	Letter
$\frac{1}{4}$ of 68	17	S
$\frac{1}{5}$ of 15	3	U
$\frac{2}{5}$ of 55	22	N

	Answer	Letter
$\frac{1}{2}$ of 42	21	C
$\frac{1}{10}$ of 20	2	R
$\frac{1}{4}$ of 52	13	E
$\frac{1}{9}$ of 54	6	A
$\frac{3}{5}$ of 15	9	M?

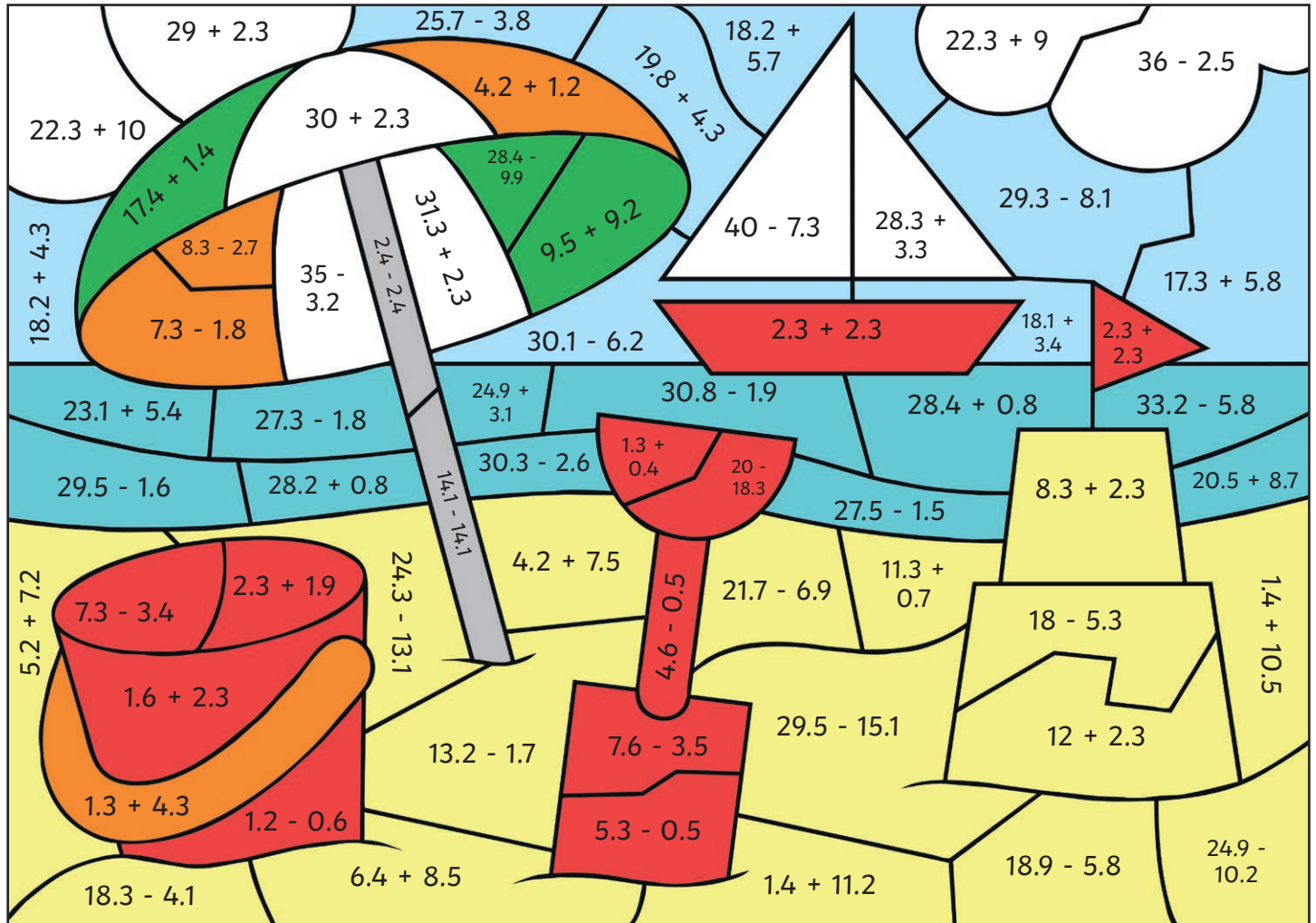
	Answer	Letter
$\frac{1}{2}$ of 30	15	B
$\frac{1}{8}$ of 104	13	E
$\frac{1}{3}$ of 63	21	C
$\frac{1}{2}$ of 12	6	A
$\frac{1}{3}$ of 9	3	U
$\frac{1}{5}$ of 85	17	S
$\frac{1}{5}$ of 65	13	E

	Answer	Letter
$\frac{2}{3}$ of 30	20	T
$\frac{1}{3}$ of 21	7	H
$\frac{1}{3}$ of 39	13	E
$\frac{1}{2}$ of 46	23	Y

	Answer	Letter
$\frac{1}{3}$ of 33	11	P
$\frac{1}{4}$ of 52	13	E
$\frac{1}{8}$ of 104	13	E
$\frac{1}{2}$ of 38	19	L

Colour by Calculation

Use the key to colour the summer-themed picture.



Grey:	Red:	Orange:	Yellow:	Green:	Light Blue:	Dark Blue:	White:
0	1 - 5	5.1 - 10	10.1 - 15	15.1 - 20	20.1 - 25	25.1 - 30	30.1 - 35



Written Methods of Multiplication and Division Code Breaker

									
2	4	8	6	1	0	5	9	3	7

1.				×		
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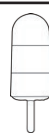
Answer: 336 × 85 = 28 560

2.				×		
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Answer: 318 × 72 = 22 896

3.					÷	
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Answer: 2148 ÷ 4 = 537

4.					÷	
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Answer: 7128 ÷ 9 = 792

5.					÷	
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Answer: 3430 ÷ 7 = 490

Summertime Addition and Subtraction Maths Mosaic

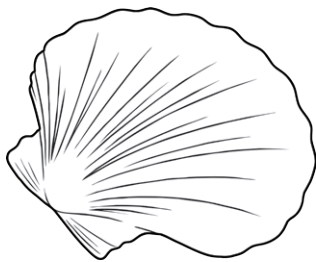
Solve the calculations to reveal the hidden picture. Each answer has a special colour.

green = 7200 | **pink** = 7500 | **black** = 7800 | **blue** = 8100 | **yellow** = 8400

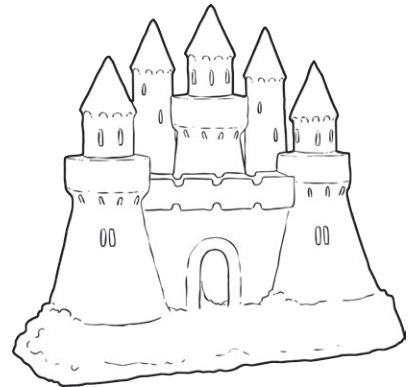
2650 + 5450	9972 - 1872	1788 + 6612	5589 + 2811	8369 + 31	9959 - 1559	1528 + 6872	757 + 7343	7619 + 481
2107 + 5993	6475 + 1925	4660 + 3740	2461 + 5939	8417 - 17	958 + 7442	6194 + 2206	9859 - 1459	9526 - 1426
5959 + 1841	8263 - 463	1171 + 6629	715 + 7085	4865 + 2935	3101 + 4699	5518 + 2282	1036 + 6764	4399 + 3401
9584 - 1184	7554 + 246	6999 + 801	677 + 7123	5590 + 2810	8688 - 888	9892 - 2092	333 + 7467	9860 - 1460
4334 + 4066	1577 + 6823	1920 + 5880	1787 + 6613	5588 + 2812	8370 + 30	8360 - 560	4335 + 4065	1576 + 6824
9270 - 870	7308 + 1092	3886 + 4514	8703 - 303	6238 + 2162	7083 + 1317	3591 + 4809	1162 + 7238	4200 + 4200
7787 + 613	7787 + 613	3886 + 4514	8703 - 303	7308 + 1092	7787 + 613	3073 + 5327	7456 + 944	6726 + 1674
3979 + 4421	8434 - 34	5927 + 1573	5124 + 2376	6329 + 1171	8233 - 733	8899 - 1399	3980 + 4420	9335 - 935
6967 + 233	3887 + 4513	8704 - 304	1042 + 6458	1964 + 5536	8825 - 1325	5589 + 2811	8360 + 40	2546 + 4654
1827 + 5373	658 + 6542	6475 + 1925	4660 + 3740	2461 + 5939	8417 - 17	958 + 7442	3043 + 4157	4380 + 2820

Summer Number Puzzles

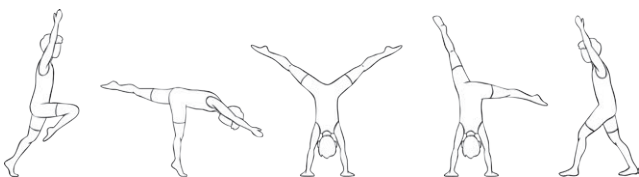
I collect some shells on the beach.
I multiply the number of shells I have by 7.
I then subtract 7,
multiply by 9,
and divide by 2.
I end with the number 1953.
How many shells did I collect? **63 shells**



I decorate my sandcastle with flags.
I multiply the number of flags I use by 26.
I then add 132,
multiply by 4,
and divide by 10.
I end with the number 344.
How many flags did I use to decorate
my sandcastle? **28 flags**

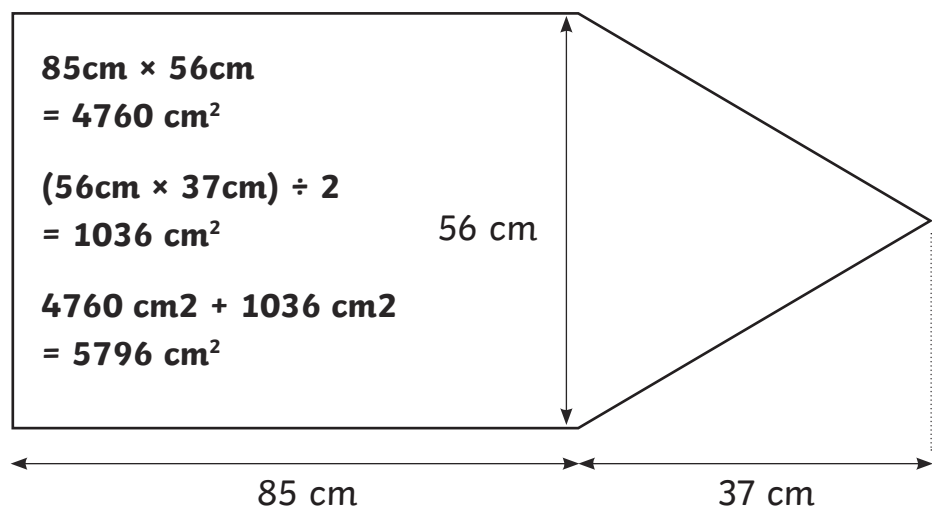
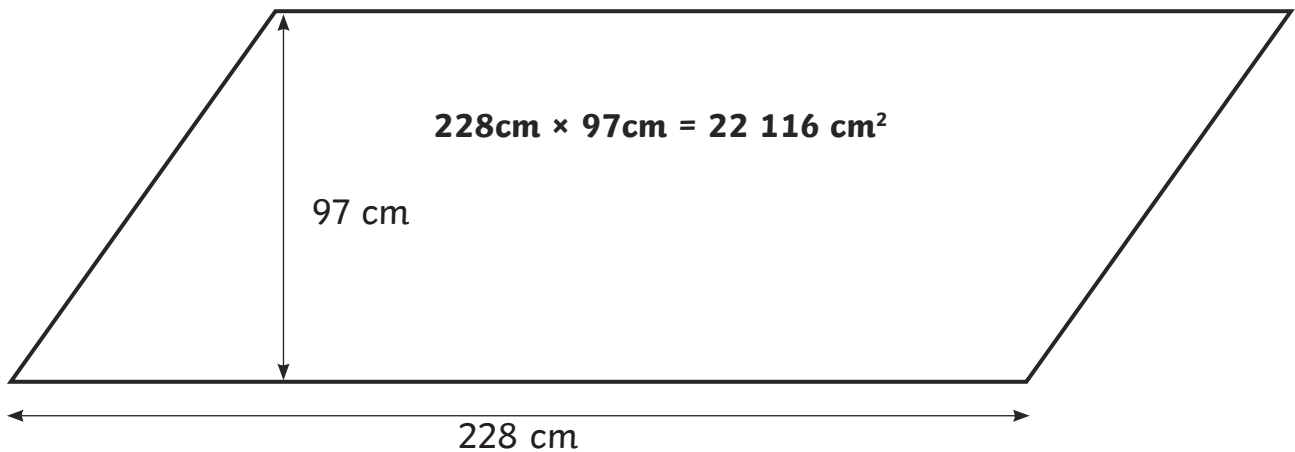
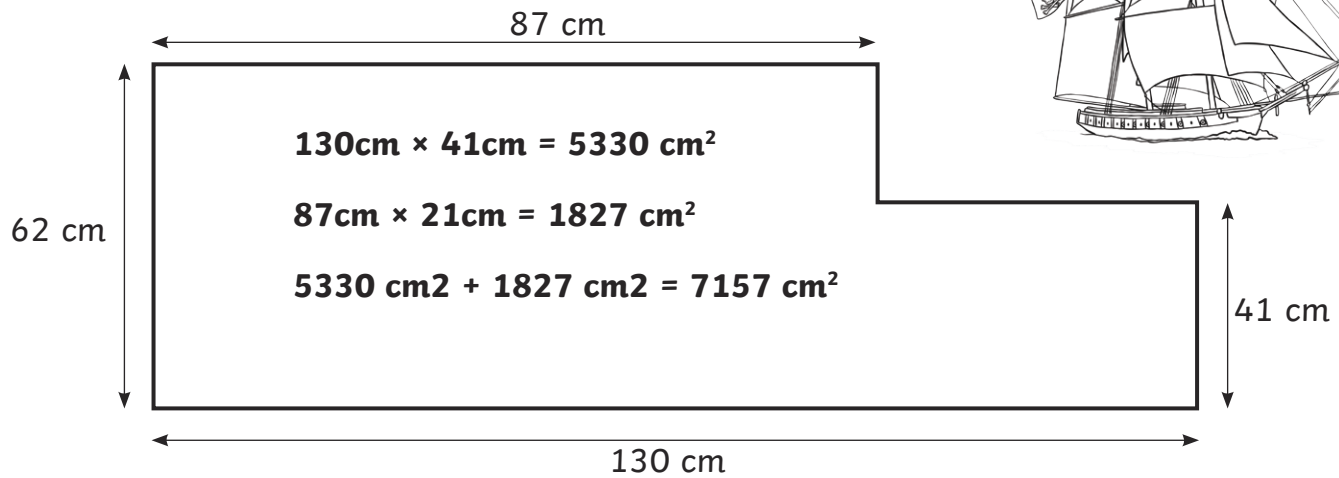


I practise cartwheels on the sand.
I multiply the number of cartwheels
I do by 38.
I then subtract 83,
multiply by 100,
and divide by 4.
I end with the number 19 775.
How many cartwheels did I do?
23 cartwheels



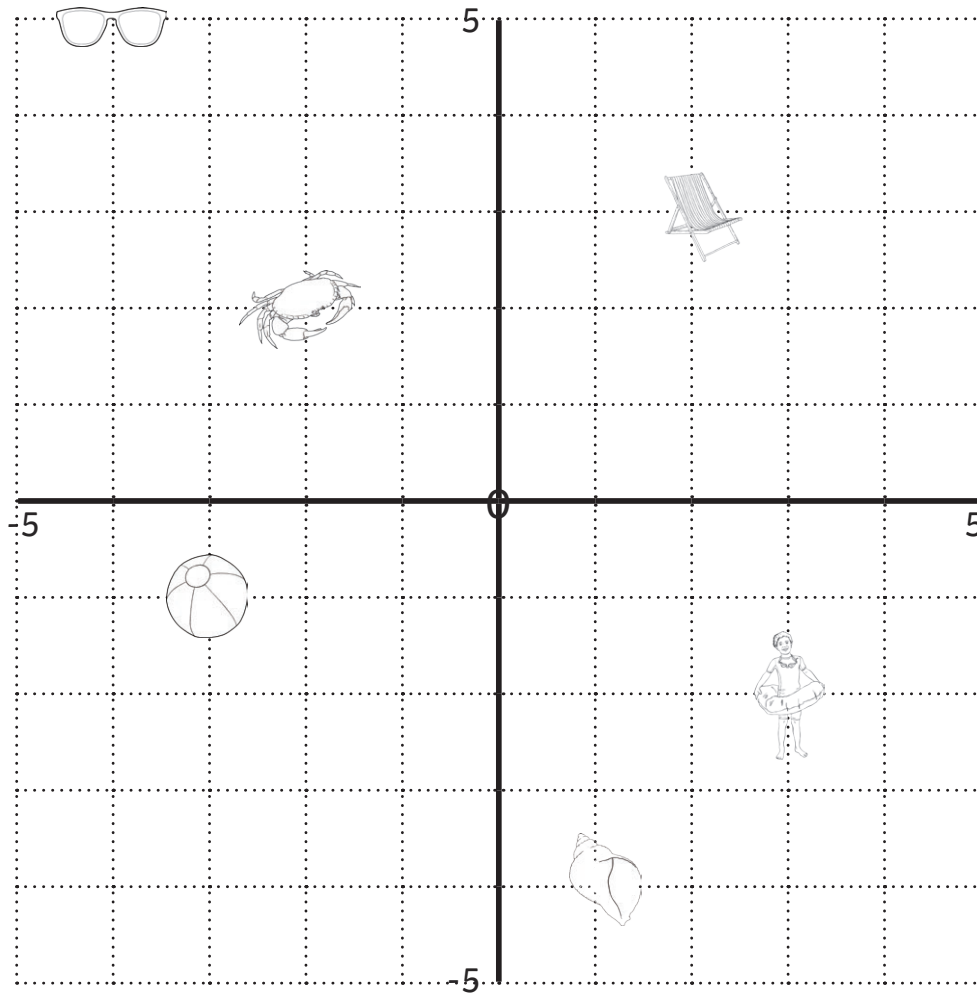
Pirate Flags

Use the dimensions to calculate the area of each pirate flag.
(Not drawn to scale)



Summer-Themed Coordinate Translations

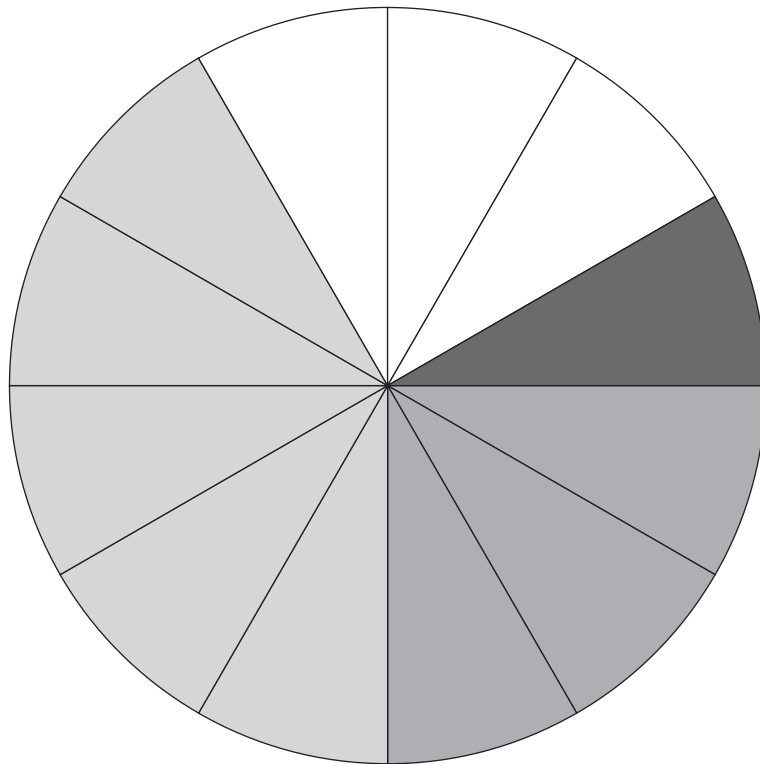
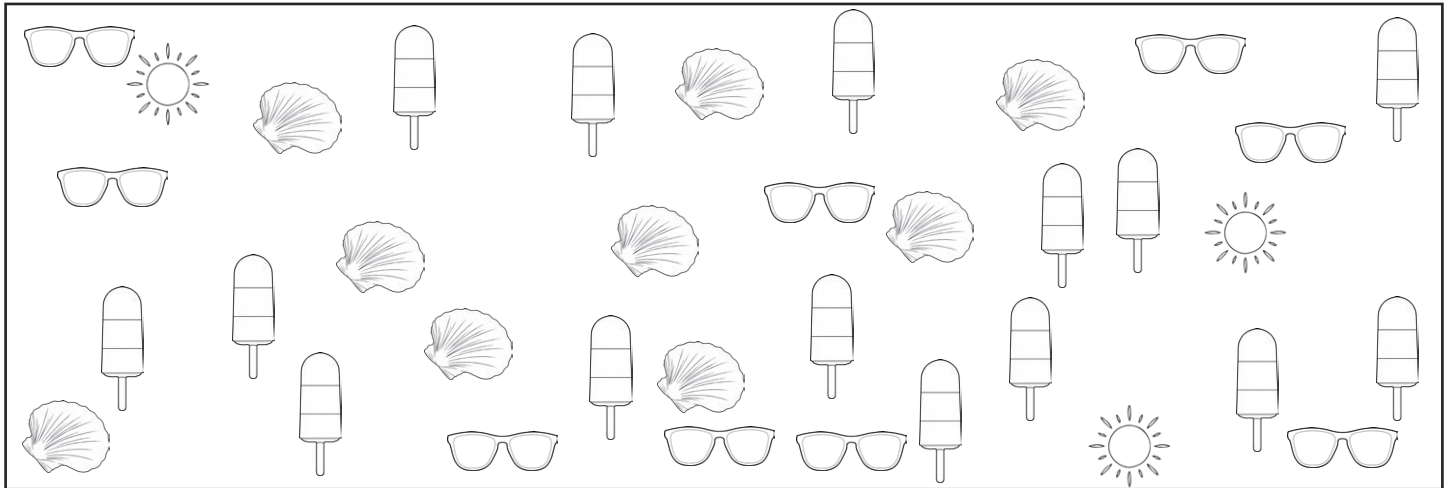
Write the coordinates of the summer-themed objects. Translate them and write the new coordinates.



Object	Starting Coordinate	Translation	Finishing Coordinate
	(-3, -1)	Right 4, Up 6	(1, 5)
	(-4, 5)	Right 5, Down 7	(1, -2)
	(3, -2)	Left 4, Down 3	(-1, -5)
	(-2, 2)	Left 1, Up 2	(-3, 4)
	(1, -4)	Right 3, Down 1	(4, -5)
	(2, 3)	Right 1, Up 2	(3, 5)

Summer Holiday Pie Chart

Count the summer-themed objects carefully. Represent the results as a pie chart.



Item	Pie Chart Colour	Frequency	Fraction	Number of Pie Chart Segments
Sun		3	$\frac{3}{36} = \frac{1}{12}$	1
Sea shell		9	$\frac{9}{36} = \frac{1}{4}$	3
Ice lolly		15	$\frac{15}{36} = \frac{5}{12}$	5
Sunglasses		9	$\frac{9}{36} = \frac{1}{4}$	3