
















Year 6 Summer-Themed Maths Activity Booklet

Name: _____








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: _____

What is the number						rounded to the nearest 100?
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Answer: _____

What is the number						rounded to the nearest 1000?
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Answer: _____

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

What is the number					written in Roman numerals?
--------------------	---	---	---	---	----------------------------

Answer: _____

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

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		
$\frac{1}{7}$ of 49		
$\frac{1}{2}$ of 46		

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

	Answer	Letter
$\frac{5}{6}$ of 18		
$\frac{2}{6}$ of 18		
$\frac{2}{3}$ of 33		
$\frac{1}{4}$ of 24		
$\frac{1}{2}$ of 44		
$\frac{1}{5}$ of 30		
$\frac{1}{2}$ of 34		

	Answer	Letter
$\frac{1}{8}$ of 24		
$\frac{1}{3}$ of 51		
$\frac{1}{3}$ of 39		

	Answer	Letter
$\frac{1}{4}$ of 68		
$\frac{1}{5}$ of 15		
$\frac{2}{5}$ of 55		

	Answer	Letter
$\frac{1}{2}$ of 42		
$\frac{1}{10}$ of 20		
$\frac{1}{4}$ of 52		
$\frac{1}{9}$ of 54		
$\frac{3}{5}$ of 15		?

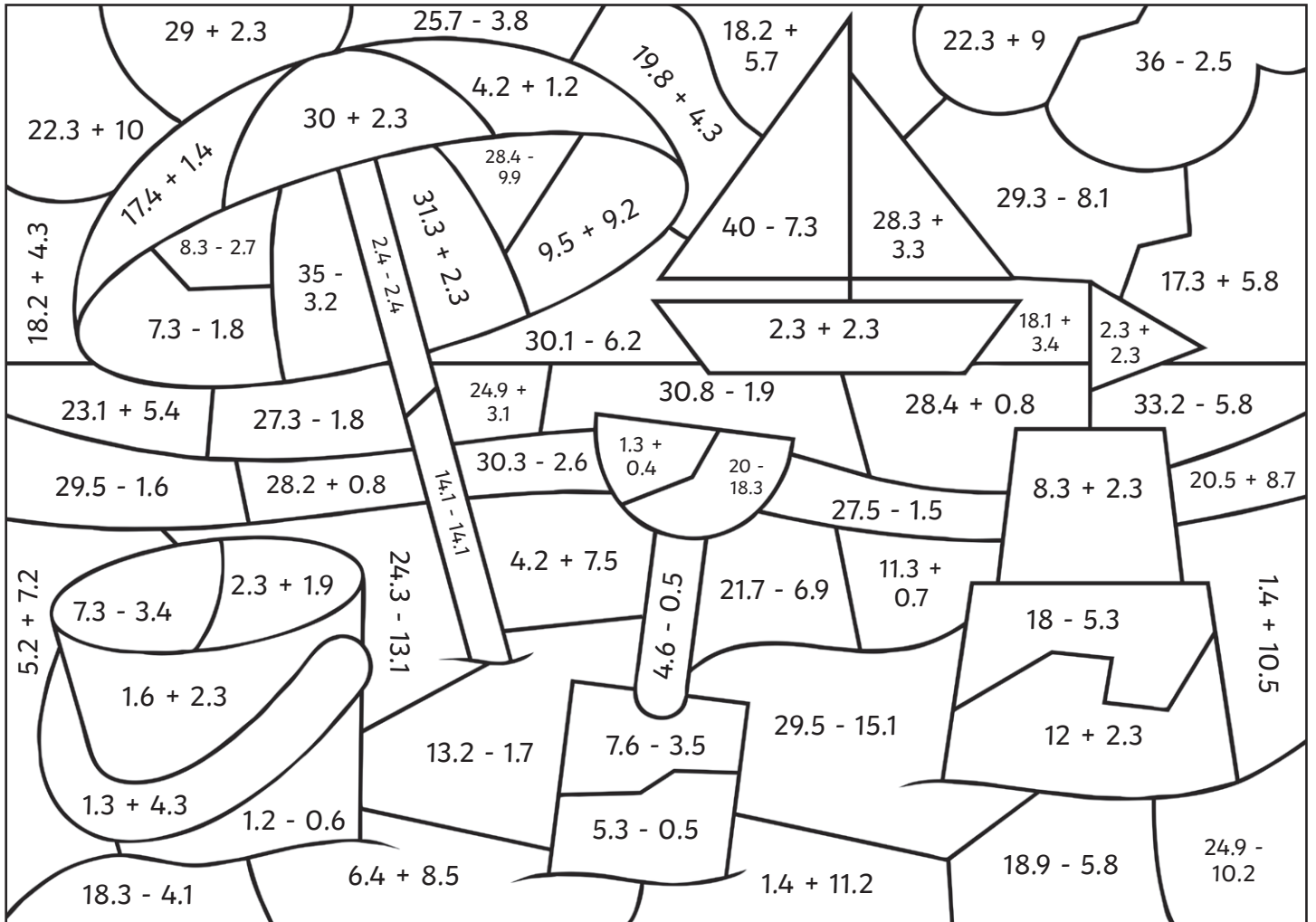
	Answer	Letter
$\frac{1}{2}$ of 30		
$\frac{1}{8}$ of 104		
$\frac{1}{3}$ of 63		
$\frac{1}{2}$ of 12		
$\frac{1}{3}$ of 9		
$\frac{1}{5}$ of 85		
$\frac{1}{5}$ of 65		

	Answer	Letter
$\frac{2}{3}$ of 30		
$\frac{1}{3}$ of 21		
$\frac{1}{3}$ of 39		
$\frac{1}{2}$ of 46		

	Answer	Letter
$\frac{1}{3}$ of 33		
$\frac{1}{4}$ of 52		
$\frac{1}{8}$ of 104		
$\frac{1}{2}$ of 38		

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: _____

2.				×		
----	---	---	---	----------	---	---






Answer: _____

3.					÷	
----	---	---	---	---	----------	---

Answer: _____

4.					÷	
----	---	---	---	---	----------	---

Answer: _____

5.					÷	
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Answer: _____

Summertime Addition and Subtraction Maths Mosaic

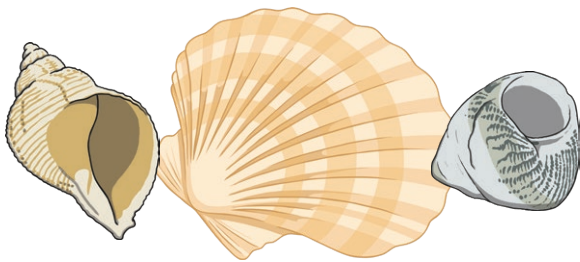
Solve the calculations to reveal the hidden picture. Each answer has a special colour.

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

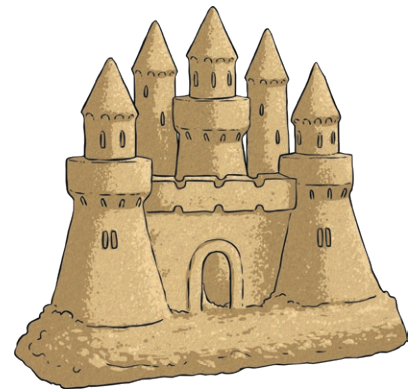
$2650 + 5450$	$9972 - 1872$	$1788 + 6612$	$5589 + 2811$	$8369 + 31$	$9959 - 1559$	$1528 + 6872$	$757 + 7343$	$7619 + 481$
$2107 + 5993$	$6475 + 1925$	$4660 + 3740$	$2461 + 5939$	$8417 - 17$	$958 + 7442$	$6194 + 2206$	$9859 - 1459$	$9526 - 1426$
$5959 + 1841$	$8263 - 463$	$1171 + 6629$	$715 + 7085$	$4865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

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?



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?

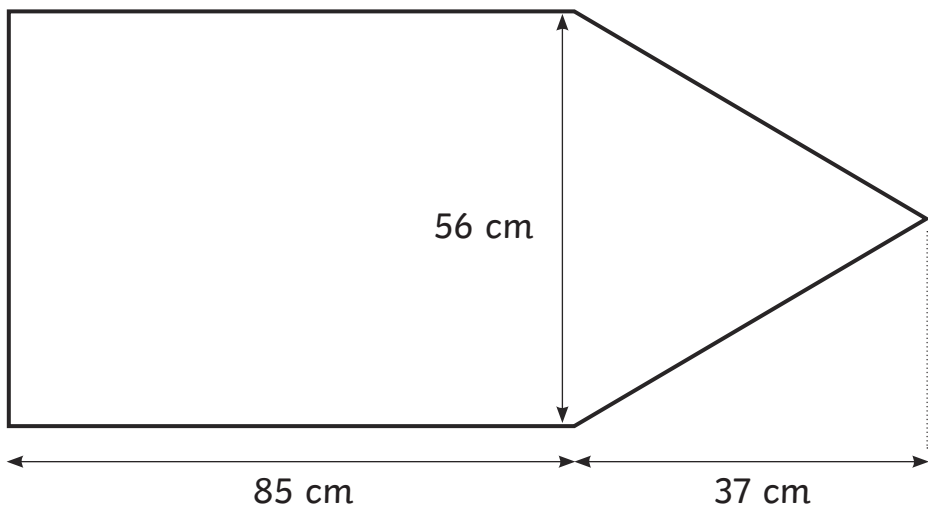
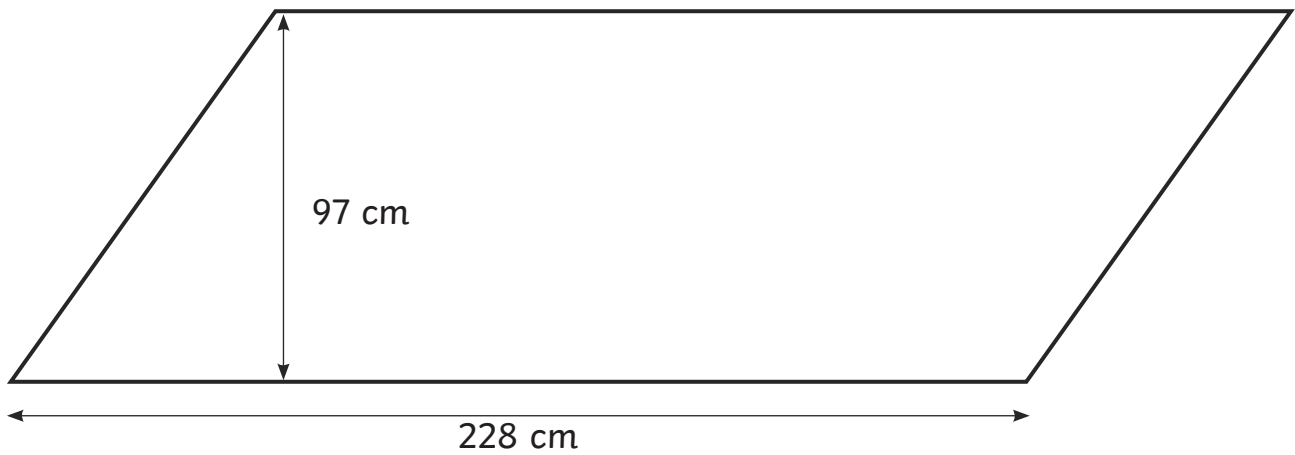
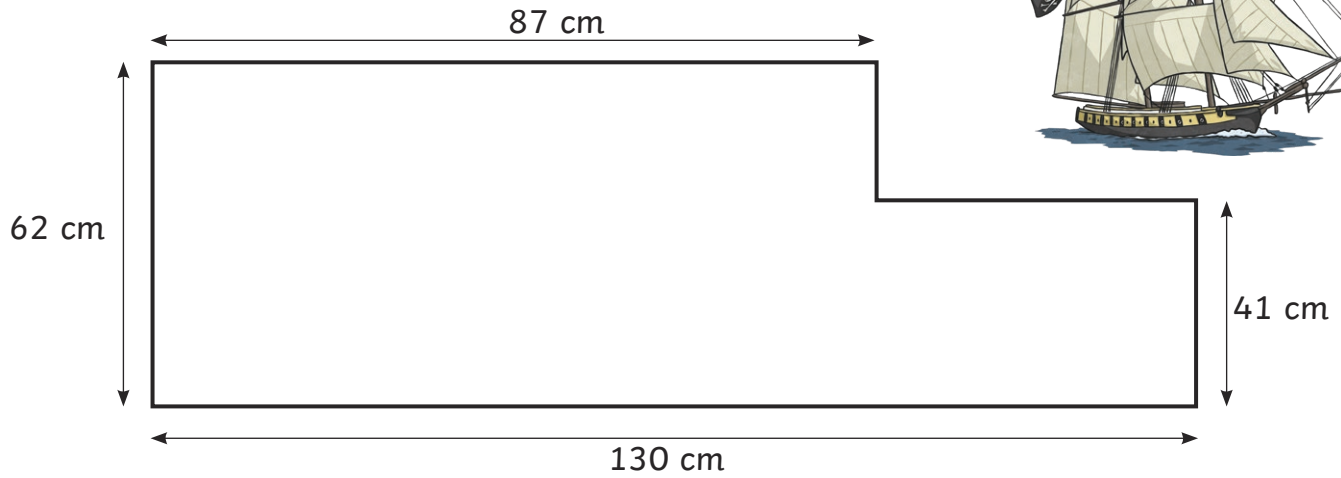


I practise cartwheels on the sand.
I multiply the number of cartwheels
I do by 38.
I then subtract 83,
multiply by 100,
and divide by 4.
I end with the number 19 775.
How many cartwheels did I do?



Pirate Flags

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



Adding and Subtracting Fractions Board Game

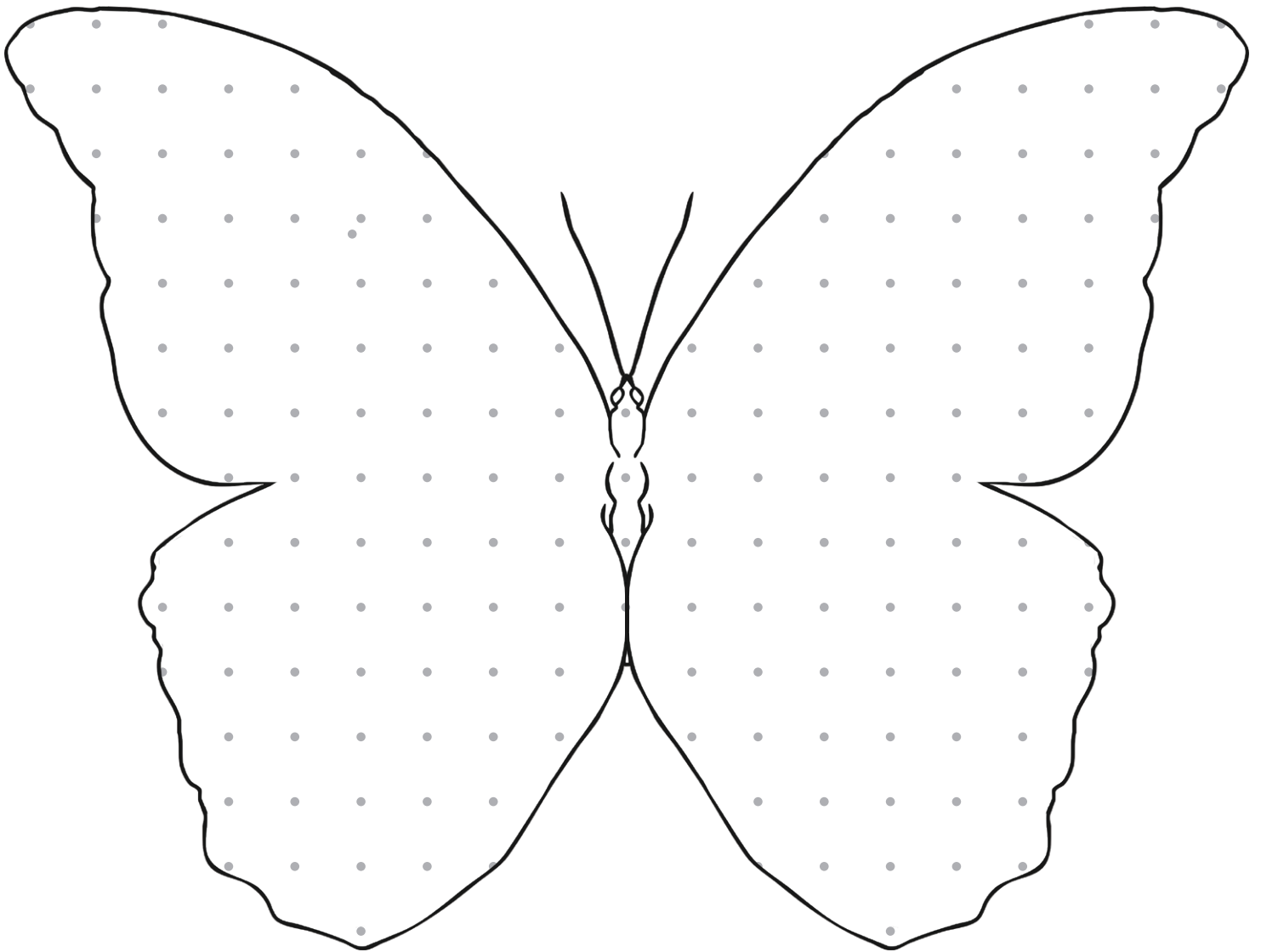
Instructions

- Each player must choose a space to start from and place their counter on it.
- The first player rolls the dice and moves their counter clockwise.
- They must answer the question in that square, find the answer on the correct shell and cover it over.
- The next player will take their turn.
- If a player lands on a square where the answer has already been covered, they must miss a go.
- The winner is the player who has covered the most shells.

$\frac{2}{8} + \frac{1}{3}$	$1\frac{3}{9} - \frac{2}{5}$	$\frac{2}{3} + \frac{6}{9}$	$1\frac{9}{10} - \frac{2}{3}$	$\frac{1}{2} + \frac{2}{3}$	
$\frac{2}{10} + \frac{3}{5}$					$1\frac{1}{8} - \frac{5}{6}$
$\frac{2}{8} + \frac{1}{2}$					$\frac{1}{2} + \frac{7}{8}$
$1\frac{4}{10} - \frac{1}{3}$					$1\frac{5}{12} - \frac{1}{2}$
$\frac{4}{10} + \frac{4}{5}$	$1\frac{1}{2} - \frac{1}{4}$	$\frac{1}{6} + \frac{8}{12}$	$1\frac{3}{4} - \frac{2}{3}$	$\frac{2}{6} + \frac{5}{9}$	

Butterfly Pattern Symmetry

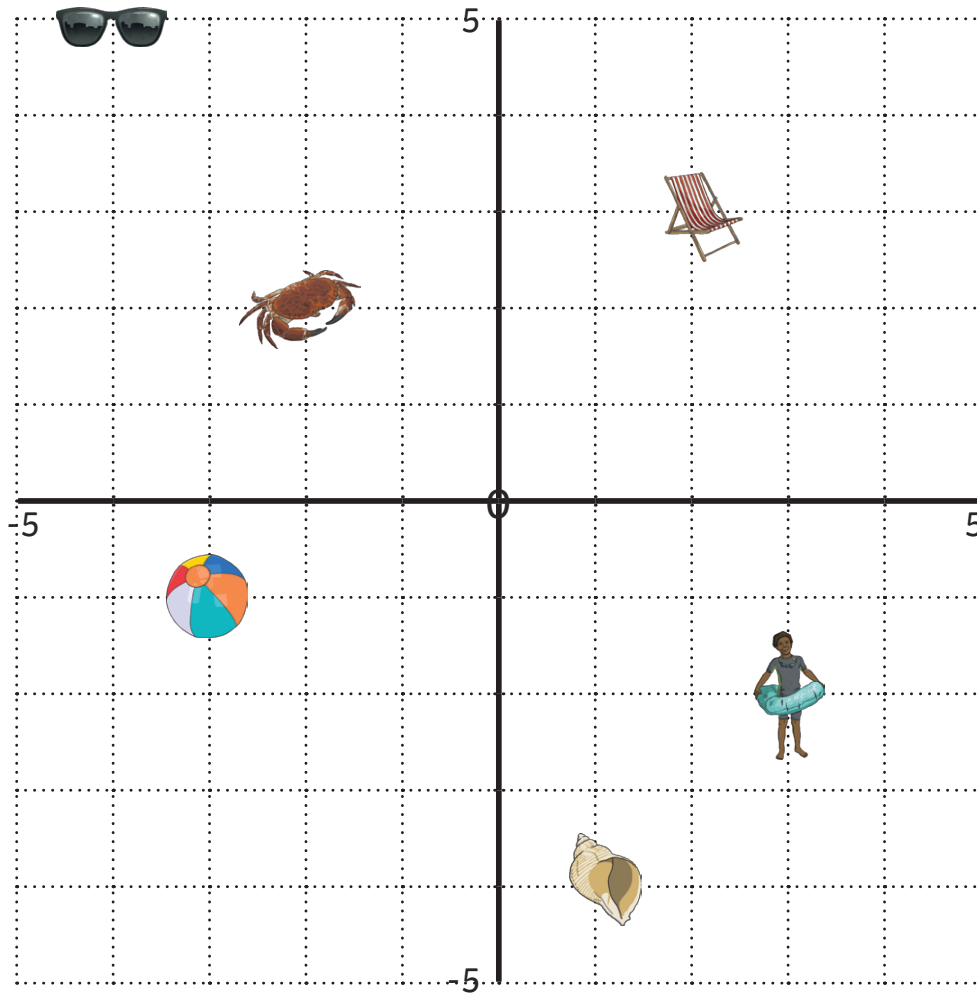
Draw a symmetrical pattern on this butterfly using different regular and irregular polygons.



Which polygons did you use in your symmetrical design?

Summer-Themed Coordinate Translations

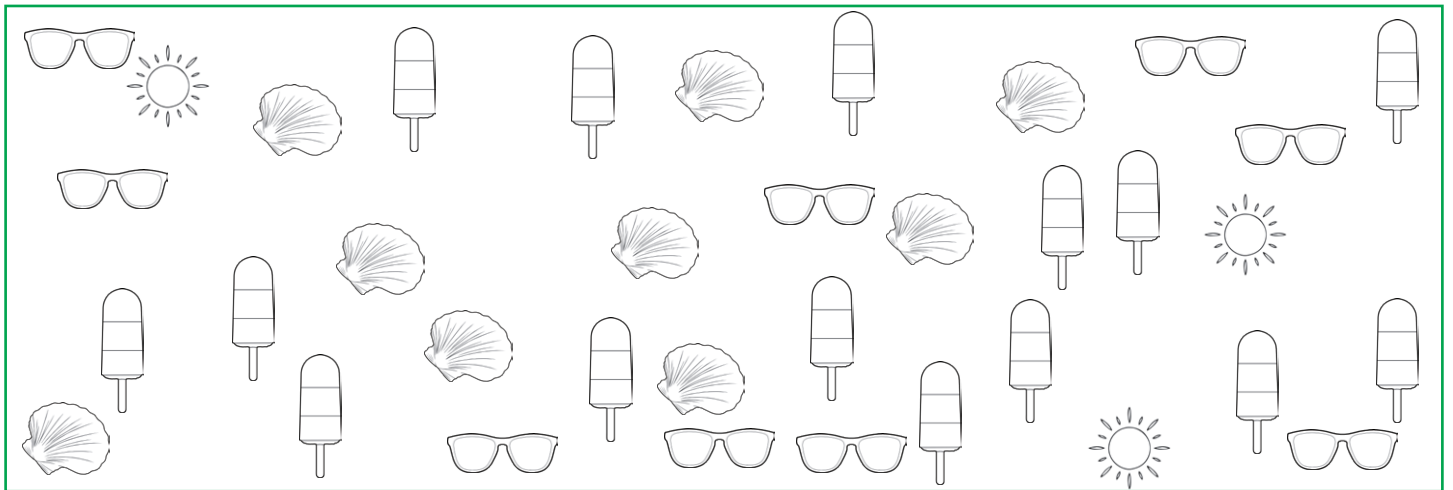
Write the coordinates of the summer-themed objects. Translate them and write the new coordinates.



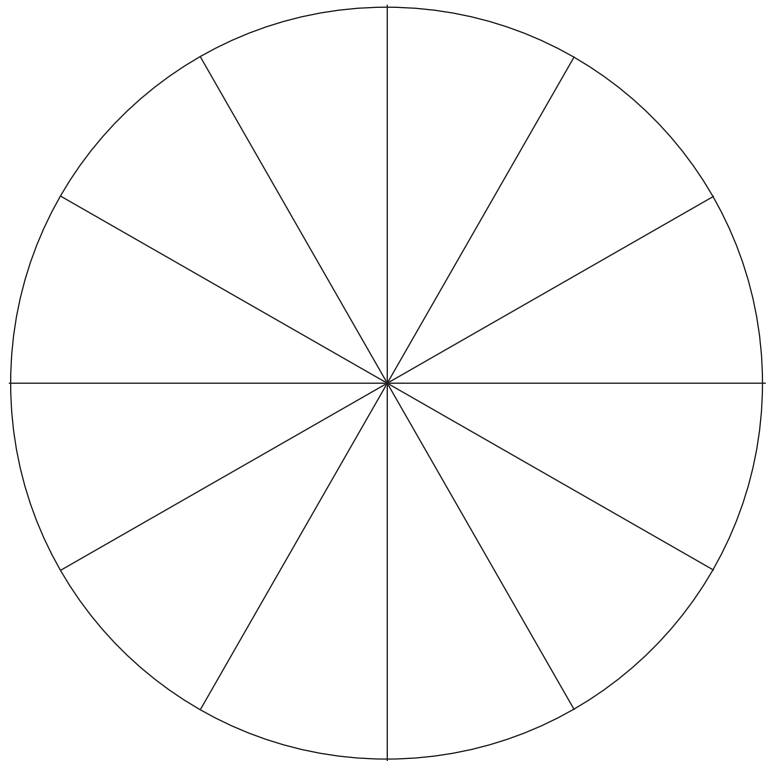
Object	Starting Coordinate	Translation	Finishing Coordinate
		Right 4, Up 6	
		Right 5, Down 7	
		Left 4, Down 3	
		Left 1, Up 2	
		Right 3, Down 1	
		Right 1, Up 2	

Summer Holiday Pie Chart

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



Key



Item	Pie Chart Colour	Frequency	Fraction	Number of Pie Chart Segments
Sun				
Sea shell				
Ice lolly				
Sunglasses				

Summer Holiday Activities Board Game

You will need:

- counters
- a dice
- a pencil

Instructions

Each player starts the game with 1000 points.

The first player will throw the dice. The number rolled shows how many squares that player can move their counter around the board.

When the player lands on a square, they must add or subtract the points on that square to or from their score.





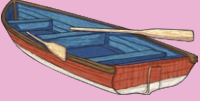











The next player will then take their turn to roll.

When a player reaches the finish, the player with the most points is the winner.

Keep track of your score here:

Name:	Name:	Name:	Name:
1000	1000	1000	1000

Summer Holiday Activities Board Game

<p>START</p>	 <p>+ 122</p>	 <p>- 158</p>				
			 <p>+ 91</p>	 <p>- 117</p>	 <p>+ 153</p>	 <p>- 74</p>
<p>FINISH</p>						 <p>+ 206</p>
 <p>+ 101</p>	 <p>- 48</p>	 <p>+ 122</p>	 <p>- 159</p>	 <p>- 139</p>		
			 <p>+ 106</p>	 <p>+ 142</p>		
 <p>- 131</p>	 <p>+ 147</p>	 <p>- 113</p>	 <p>+ 164</p>	 <p>- 108</p>		
 <p>+ 178</p>						 <p>+ 161</p>
 <p>-42</p>	 <p>+169</p>	 <p>- 96</p>	 <p>+ 124</p>	 <p>- 123</p>	 <p>+ 187</p>	