

Maths Week Scotland

30th – 6th October 2019



Take part in our
daily challenges!

#MathsWeekScot



Help me identify the pattern in each sequence and complete the missing squares.



1	3	5			11	
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5	10	15						
---	----	----	--	--	--	--	--	--

2	4	8	16	32	64	128		512	
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31	29	23	19			11	7			
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1	1	2	3	5	8	13	21	34			
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3	8	23	68	203							
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Can you help Hannah solve the problem in the grid below?

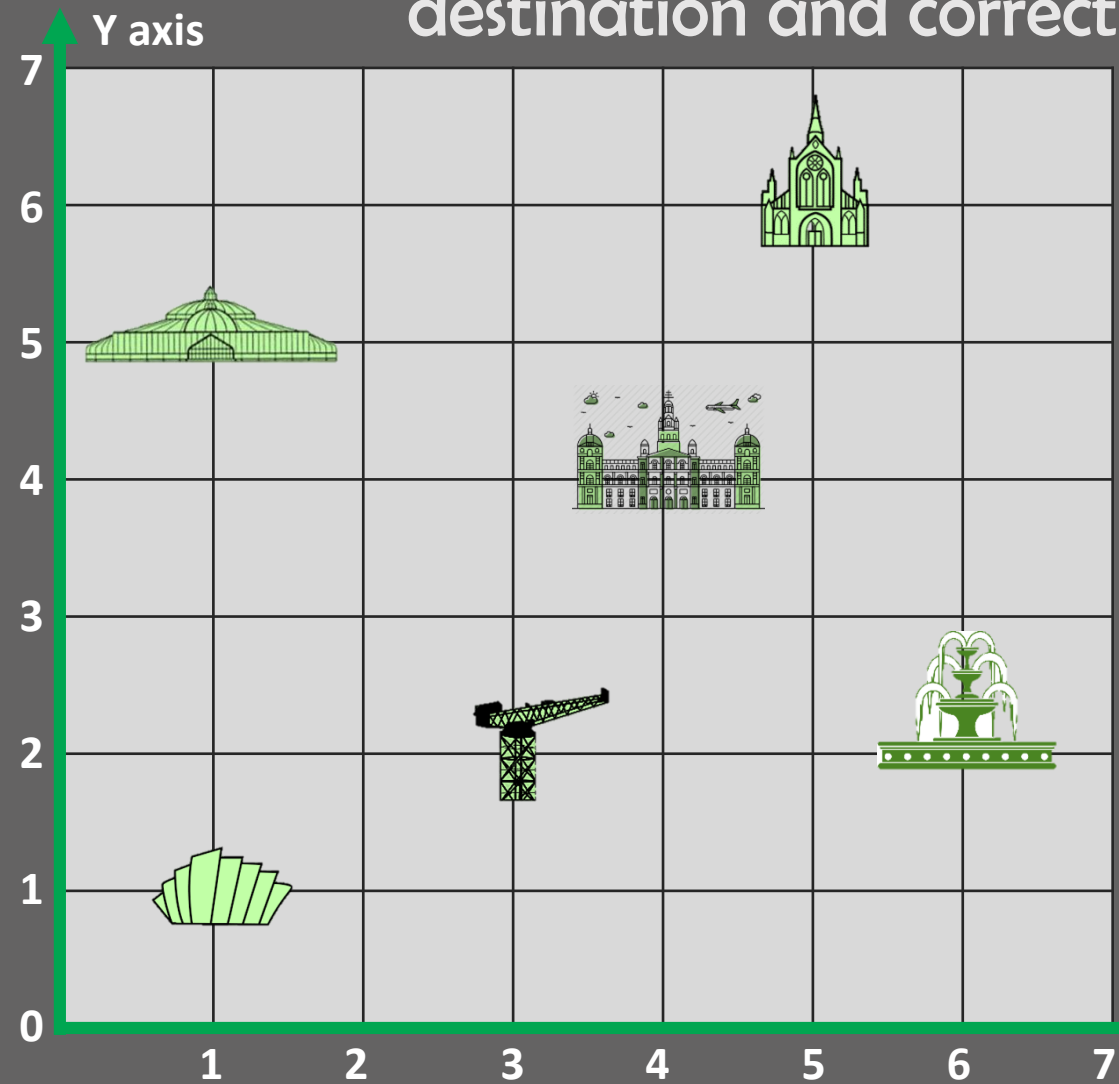
Each food stands for a number. The numbers shown are the totals of the four foods in the row or column.

Can you help me find the remaining totals?



				<input type="text"/>
				<input type="text"/>
				42
				31
<input type="text"/>	28	<input type="text"/>	<input type="text"/>	

Can you help Alex find the coordinates for each Glasgow tourist destination and correctly name them?



Coordinates	Destination
(4 , 4)	Glasgow City Chambers

I'm going on a walking tour of Glasgow today but need some help finding my way about.



Help Hannah calculate the underlined numbers using the numbers in the tables below.

95

10	2	3	25	4	5
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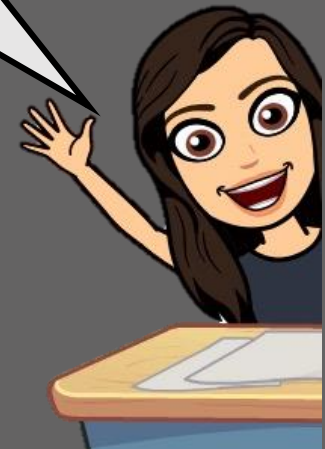
342

25	50	1	6	3	5
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588

25	75	6	7	4	9
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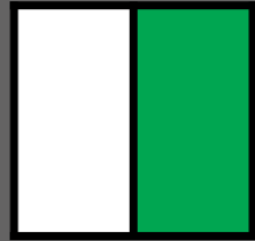
Remember, you don't have to use every number and some of these may have more than one solution.



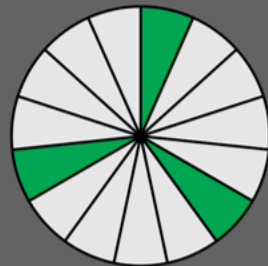
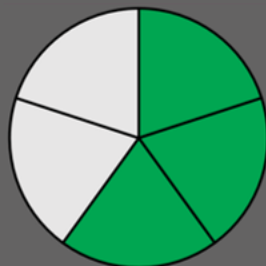
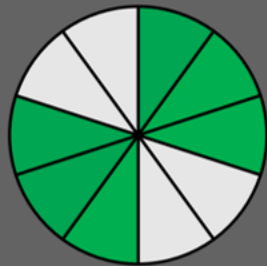
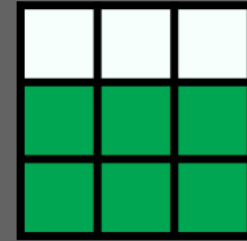
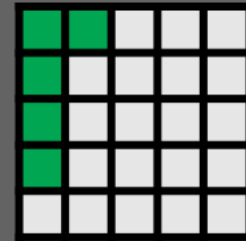
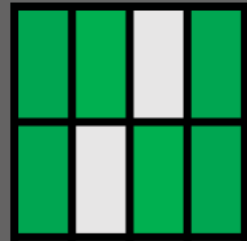
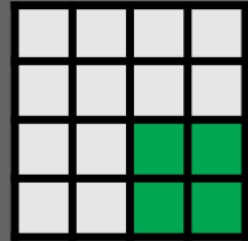
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Help Alex work out what fraction of each shape is shaded green then convert it into a percentage.



$\frac{1}{2}$ 50%



I've answered one but the rest are up to you.



Answers

Challenge 1

A.

1	3	5	7	9	11	13
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5	10	15	20	25	30	35	40	45
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2	4	8	16	32	64	128	256	512	1024
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31	29	23	19	17	13	11	7	5	3	1
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1	1	2	3	5	8	13	21	34	55	89	144
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3	8	23	68	203	608	1823	5468	16403	49208	147623	442868	1328603
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Answers

Challenge 2

A.



$= 5$



$= 7$



$= 14$

Challenge 3

A.

Coordinates	Destination
(4 , 4)	Glasgow City Chambers
(1 , 5)	Kibble Palace
(5 , 6)	Glasgow Cathedral
(1 , 1)	SEC Armadillo
(3 , 2)	Finnieston Crane
(6 , 2)	Doulton Fountain

Answers

Challenge 4

A.

$$25 \times 2 = 50$$

$$10 \times 4 = 40$$

$$90 + 5 = \underline{95}$$

$$6 + 1 = 7$$

$$5 + 3 = 8$$

$$7 \times 50 = 350$$

$$350 - 8 = \underline{342}$$

$$75 \times 9 = 675$$

$$25 \times 4 = 100$$

$$675 - 100 = 575$$

$$575 + 6 = 581$$

$$581 \div 7 = \underline{83}$$

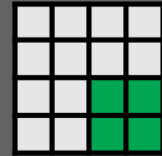
Answers

Challenge 5

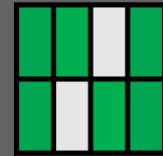
A.



$\frac{1}{2}$ 50%



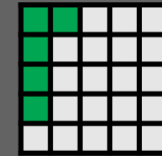
$\frac{1}{4}$ 40%



$\frac{3}{4}$ 75%



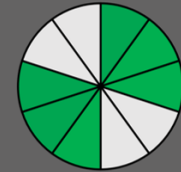
$\frac{3}{10}$ 30%



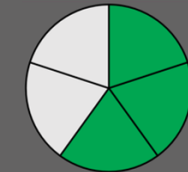
$\frac{1}{5}$ 20%



$\frac{2}{3}$ 66.6%



$\frac{3}{5}$ 60%



$\frac{3}{5}$ 60%



$\frac{1}{5}$ 20%