

Maths Week Scotland

30th – 6th October 2019

=

+

✓

>

£

≤

∝

÷

π

°C



Take part in our
daily challenges!

#MathsWeekScot



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

1	3	5			11	
---	---	---	--	--	----	--

5	10	15						
---	----	----	--	--	--	--	--	--

2	4	8	16	32	64	128		512	
---	---	---	----	----	----	-----	--	-----	--

31	29	23	19			11	7			
----	----	----	----	--	--	----	---	--	--	--

1	1	2	3	5	8	13	21	34			
---	---	---	---	---	---	----	----	----	--	--	--

3	8	23	68	203								
---	---	----	----	-----	--	--	--	--	--	--	--	--



#MathsWeekScot



















Can you help Hannah solve the problem in the grid below?

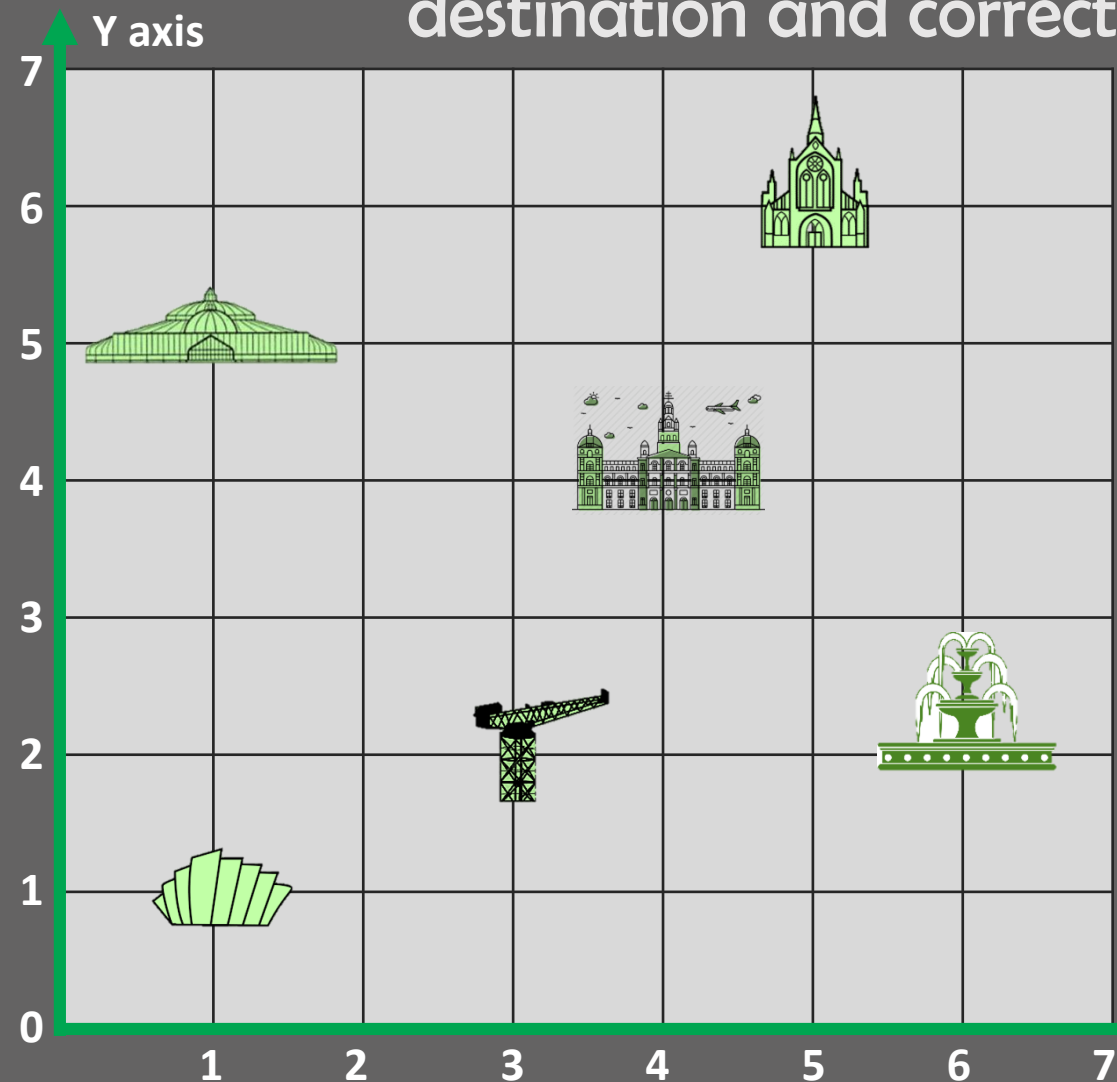
Each food stands for a number. The numbers shown are the totals of the four foods in the row or column.

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
----	---	---	----	---	---

342

25	50	1	6	3	5
----	----	---	---	---	---

588

25	75	6	7	4	9
----	----	---	---	---	---

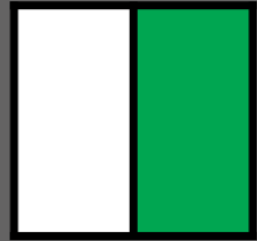
Remember, you don't have to use every number and some of these may have more than one solution.



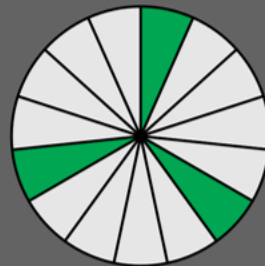
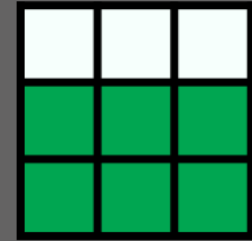
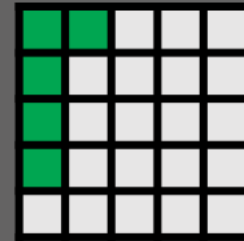
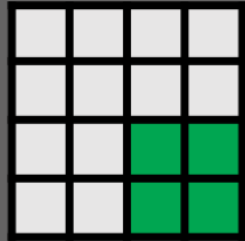
#MathsWeekScot



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
---	---	---	---	---	----	----

5	10	15	20	25	30	35	40	45
---	----	----	----	----	----	----	----	----

2	4	8	16	32	64	128	256	512	1024
---	---	---	----	----	----	-----	-----	-----	------

31	29	23	19	17	13	11	7	5	3	1
----	----	----	----	----	----	----	---	---	---	---

1	1	2	3	5	8	13	21	34	55	89	144
---	---	---	---	---	---	----	----	----	----	----	-----

3	8	23	68	203	608	1823	5468	16403	49208	147623	442868	1328603
---	---	----	----	-----	-----	------	------	-------	-------	--------	--------	---------

#MathsWeekScot



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)	Doultoun 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.

