

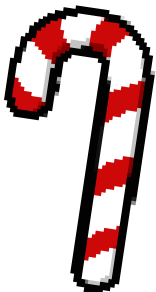


 **MATHS TEACHER HUB**

CHRISTMAS PUZZLE BOOKLET



Name.....



Can you solve these Christmas dingbats?

1. 	2. Tofrankuch	3. Spear Cottage Pepper Shepherd Garden Apple
4. 	5. PPPPP Our planet	6. Night Night Night Night Night Night Night Night Night Night Night Night
7. CCCCC FESTIVE	8. MISTLETOE xxx	9. A3 tortilla A4
10. ABCDEFGHIJKLMN OP QRSTUVWXYZ. ABCDEFGHIJKLMN OP QRSTUVWXYZ.	11. Pres ents	12. TURKEY SSSSSSSS
13. stel	14. Y Y MEN Y	15. Nigmassht
16. NIGHT	17. GOOD DAY SPRING HI THERE SUMMER HEY AUTUMN HELLO WINTER	18. MANAWAYGER

Calculate the value of each Christmas item.

$$\boxed{\text{Star}} + \boxed{\text{Star}} + \boxed{\text{Star}} = 30$$

$$\boxed{\text{Tree}} + \boxed{\text{Star}} + \boxed{\text{Tree}} = 14$$

$$\boxed{\text{Tree}} + \boxed{\text{Gift}} + \boxed{\text{Gift}} = 18$$

$$\boxed{\text{Gift}} + \boxed{\text{Candy}} + \boxed{\text{Tree}} = 15$$

$$\boxed{\text{Snowman}} + \boxed{\text{Snowman}} + \boxed{\text{Log}} = 15$$

$$\boxed{\text{Log}} + \boxed{\text{Log}} + \boxed{\text{Log}} = 27$$

$$\boxed{\text{Santa}} + \boxed{\text{Log}} + \boxed{\text{Snowman}} = 19$$

$$\boxed{\text{Snowflake}} + \boxed{\text{Santa}} + \boxed{\text{Snowflake}} = 29$$

$$\text{Star} = \text{Tree} = \text{Gift} = \text{Candy} =$$

$$\text{Snowman} = \text{Santa} = \text{Log} = \text{Snowflake} =$$

$$\boxed{\text{Ginger}} + \boxed{\text{Ornament}} + \boxed{\text{Ginger}} = 26$$

$$\boxed{\text{Wreath}} + \boxed{\text{Candle}} + \boxed{\text{Candle}} = 17$$

$$\boxed{\text{Ornament}} + \boxed{\text{Ornament}} + \boxed{\text{Ornament}} = 36$$

$$\boxed{\text{Ginger}} + \boxed{\text{Ornament}} + \boxed{\text{Wreath}} = 24$$

$$\boxed{\text{Candy}} + \boxed{\text{Gift}} + \boxed{\text{Candy}} = 28$$

$$\boxed{\text{Gift}} + \boxed{\text{Snowman}} + \boxed{\text{Gift}} = 23$$

$$\boxed{\text{Snowflake}} + \boxed{\text{Candy}} + \boxed{\text{Snowflake}} = 22$$

$$\boxed{\text{Snowman}} + \boxed{\text{Snowman}} + \boxed{\text{Snowman}} = 21$$

$$\text{Ginger} = \text{Wreath} = \text{Ornament} = \text{Candle} =$$

$$\text{Candy} = \text{Snowflake} = \text{Gift} = \text{Snowman} =$$

$$\boxed{\text{Tree}} + \boxed{\text{Tree}} + \boxed{\text{Santa}} = 40$$

$$\boxed{\text{Log}} + \boxed{\text{Tree}} + \boxed{\text{Ginger}} = 38$$

$$\boxed{\text{Santa}} + \boxed{\text{Santa}} + \boxed{\text{Santa}} = 54$$

$$\boxed{\text{Ginger}} + \boxed{\text{Tree}} + \boxed{\text{Santa}} = 43$$

$$\boxed{\text{Candle}} + \boxed{\text{Ornament}} + \boxed{\text{Candle}} = 61$$

$$\boxed{\text{Wreath}} + \boxed{\text{Wreath}} + \boxed{\text{Wreath}} = 48$$

$$\boxed{\text{Star}} + \boxed{\text{Ornament}} + \boxed{\text{Candle}} = 66$$

$$\boxed{\text{Wreath}} + \boxed{\text{Ornament}} + \boxed{\text{Ornament}} = 62$$

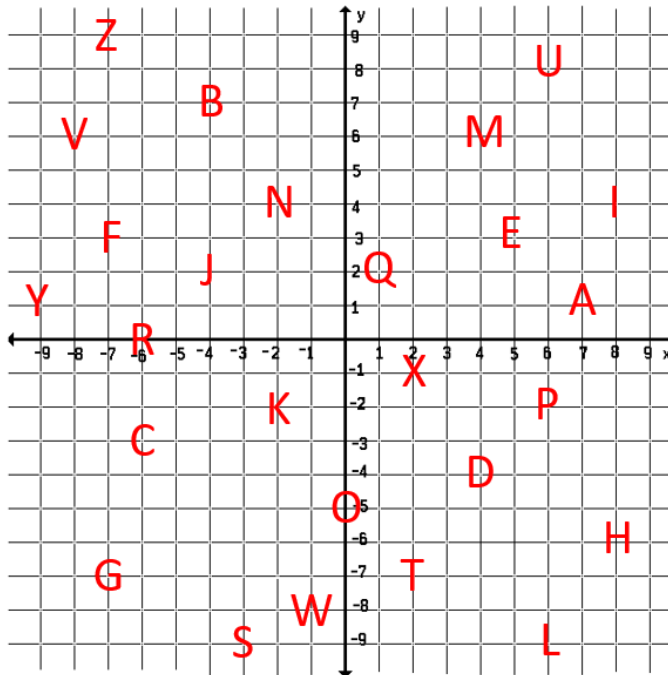
$$\text{Log} = \text{Santa} = \text{Ginger} = \text{Tree} =$$

$$\text{Candle} = \text{Ornament} = \text{Wreath} = \text{Star} =$$

Extension: Calculate the vertical totals.

Christmas Coordinate Anagrams

Decode these Christmas anagrams.



- 1) $(-3, -9) (6, -9) (5, 3) (-8, 6) (5, 3)$
- 2) $(-6, 0) (-3, -9) (-2, 4) (5, 3) (2, -7) (-3, -9) (5, 3) (6, -2)$
- 3) $(-7, -7) (0, -5) (8, 4) (-3, -9) (-6, -3) (2, -7) (-2, -2) (-2, 4)$
- 4) $(2, -7) (5, 3) (-3, -9) (6, -9) (4, 6) (5, 3) (8, 4) (0, -5) (2, -7)$
- 5) $(-6, -3) (5, 3) (0, -5) (5, 3) (-2, 4) (8, 4) (6, -2) (-2, 4)$
- 6) $(0, -5) (2, -7) (-2, 4) (6, -9) (5, 3) (0, -5) (-6, 0) (8, -6) (6, -2)$
- 7) $(7, 1) (8, 4) (-9, 1) (8, 4) (2, -7) (-2, 4) (2, -7) (-8, 6)$
- 8) $(-7, -7) (-6, -3) (5, 3) (0, -5) (-6, 0) (0, -5) (-3, -9)$
- 9) $(6, -9) (-3, -9) (-2, 4) (0, -5) (7, 1) (6, -9) (-4, 7) (-1, -8) (-3, -9)$
- 10) $(2, -7) (7, 1) (5, 3) (4, -4) (-2, 4) (-8, 6)$



Christmas Coordinates (Easy)

Use the following coordinates as a dot-to-dot drawing puzzle.

Start (6,19) (5,16) (7,18) (5,18) (7,16) (6,19) End

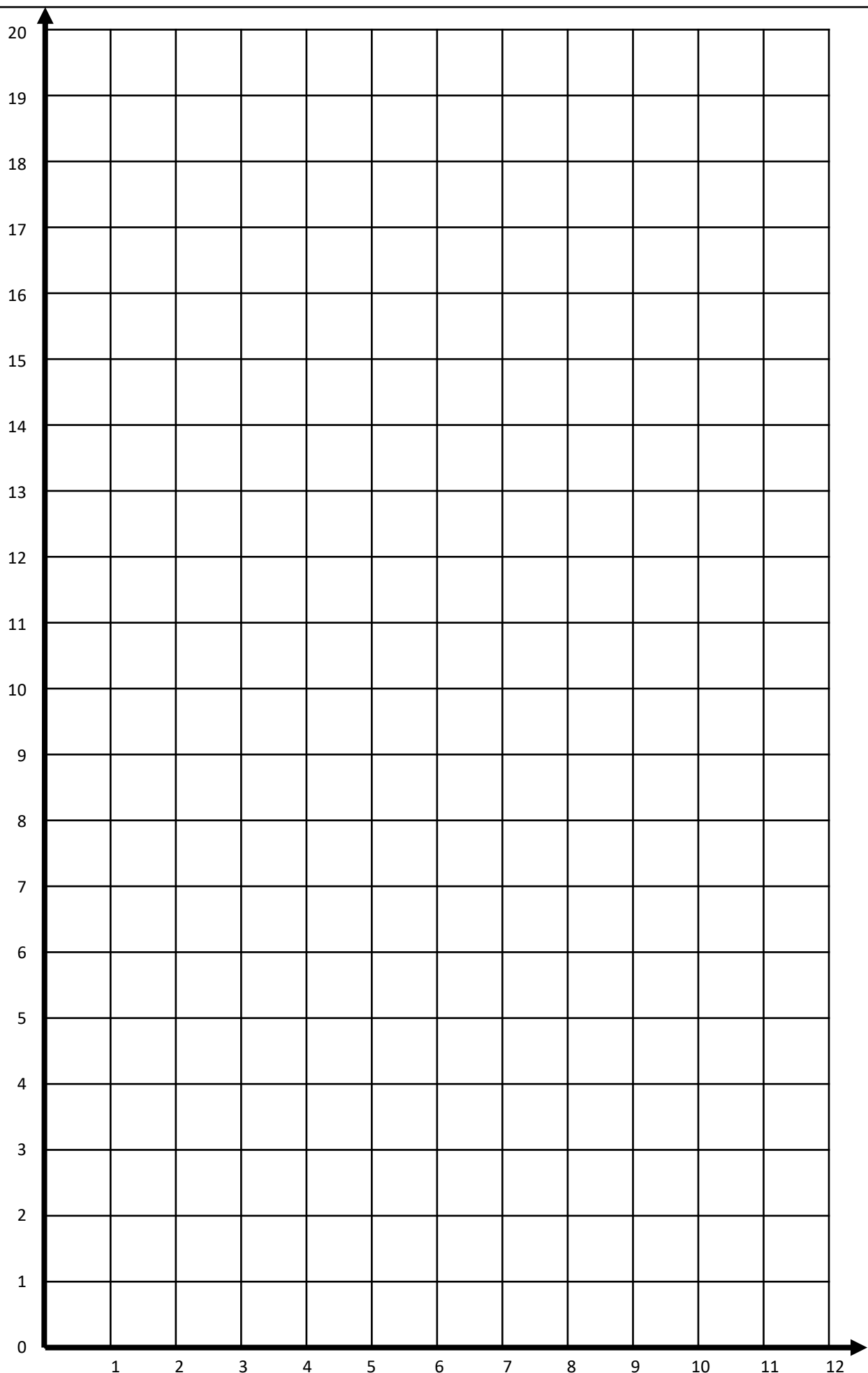
Start (6,17) (5,15) (4,14) (5,14) (3,12) (4,12) (2,10)
 (3,10) (1,8) (2,8) (0,6) (12,6) (10,8) (11,8) (9,10)
 (10,10) (8,12) (9,12) (7,14) (8,14) (7,15) (6,17) End

Start (5,6) (5,5) (7,5) (7,6) End

Start (4,5) (5,2) (7,2) (8,5) (4,5) End



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Christmas Coordinates



Use the following coordinates as a dot-to-dot drawing puzzle.

Start (0,14) (1,13) (2,11) (2,10) (1,9) (3,7) (4,5)
(5,3) (5,1) (4,-2) (2,-4) (0,-5) (-3,-5) (-5,-4)
(-7,-2) (-8,1) (-8,3) (-7,6) (-5,7) (-6,7) (-4,9)
(-3,9) (-4,11) (-3,13) (-7,12) (4,15) (1,14) (0,18)
(-5,17) (-4,13) End

Start (-1,11) (-2,11) (-2,12) (-1,12) (-1,11) End

Start (0,11) (1,11) (1,12) (0,12) (0,11) End

Start (3,10) (0,11) (-1,10) (3,10) End

Start (0,6) (1,4) (1,1) (-1,1) (-1,3) (-2,6) (-5,7)
(-6,7) (-4,9) (-3,9) (-1,8) (1,9) (3,7) (2,6) (0,6) End

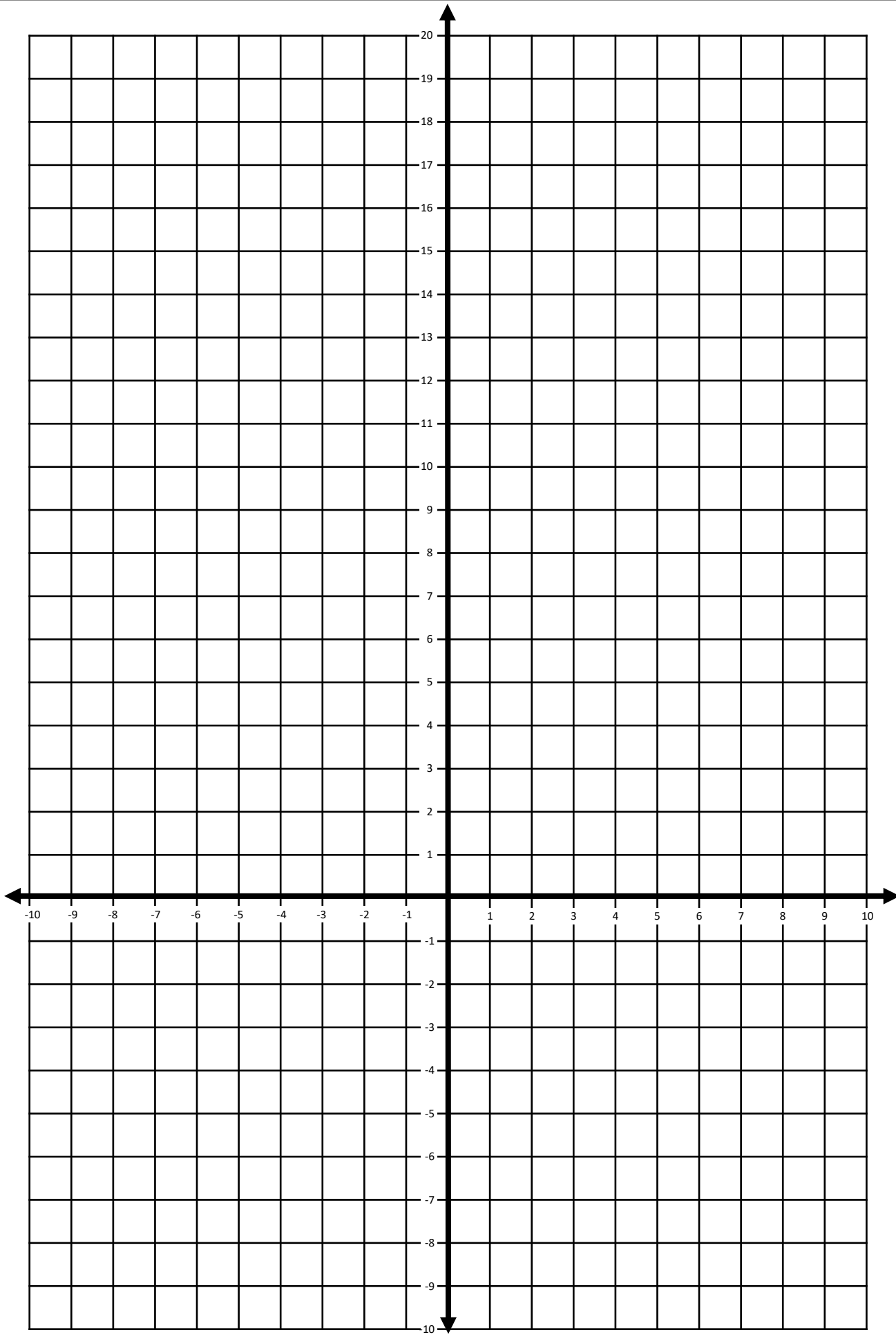
Start (-5,4) (-9,9) (-8,8) (-7,9) (-8,7) End

Start (4,5) (8,6) (9,6) (8,6) (8,7) (8,6) (9,5) End

Start (0,9) (-2,9) (-3,10) End



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Christmas Coordinates



Use the following code to decipher the following Christmas jokes.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
24	32	5	16	12	41	28	13	30	17	50	3	11	21	15	1	9	36	7	25	10	4	31	6	29	51

1. What do you call Santa when he stops moving?

$$(12 - 5)(3 \times 8)(13 + 8)(5^2)(4 \times 6) \quad (1 \times 1 \times 1)(30 - 6)(50 \div 5)(-3 + 10)(3 \times 4)$$

2. What do snowmen eat for breakfast?

$$(6 \times 5)(45 \div 9)(3^2 + 3) \quad (\sqrt{25})(3 \times 12)(90 \div 3)(3 - -4)(1^2)(13 + 17)(4^2 - 4)(-1 + 8)$$

3. Why do reindeer like Beyoncé so much?

$$(\sqrt{49})(20 + -7)(35 - 23) \quad (35 \div 5)(\sqrt{9})(-7 + 19)(6^2 - 6)(2 \times 14)(26 \div 2)(3^2 - 2)$$

4. What does Rudolf want for Christmas?

$$(1^3)(10 + 5)(42 \div 2)(5^2 + 4) \quad (-9 + 16)(39 \div 13)(\sqrt{144})(3 \times 5 + 5 \times 3)(7 \times 4)(-9 + 22)$$

$$(35 \div 5)\left(\frac{100}{4}\right)(3 \times 8)(12.5 \times 2)(120 \div 4)(\sqrt{225})(76 - 55)$$

5. What's every elf's favourite type of music?

$$(13 + 18)(6^2)(17 + 7)(\sqrt{49} - \sqrt{36})$$

6. What does Santa suffer from when he gets stuck in a chimney?

$$(33 - 28)(\sqrt[3]{27})(96 \div 4)(\sqrt{16} + \sqrt{36})(6 - (-1))$$

$$(3^3 - 2)(18 \times 2)(45 \div 3)(1^5)\left(\frac{39}{3}\right)(\sqrt{225})(2 \times 4^2)(48 - 23 + 5)(3 \times 8)$$

Use the emoji to decipher the Christmas words.

1.



2.



3.



4.



5.



6.



7.



8.



9.



10.



11.



12.



13.



14.



15.



16.



17.



18.

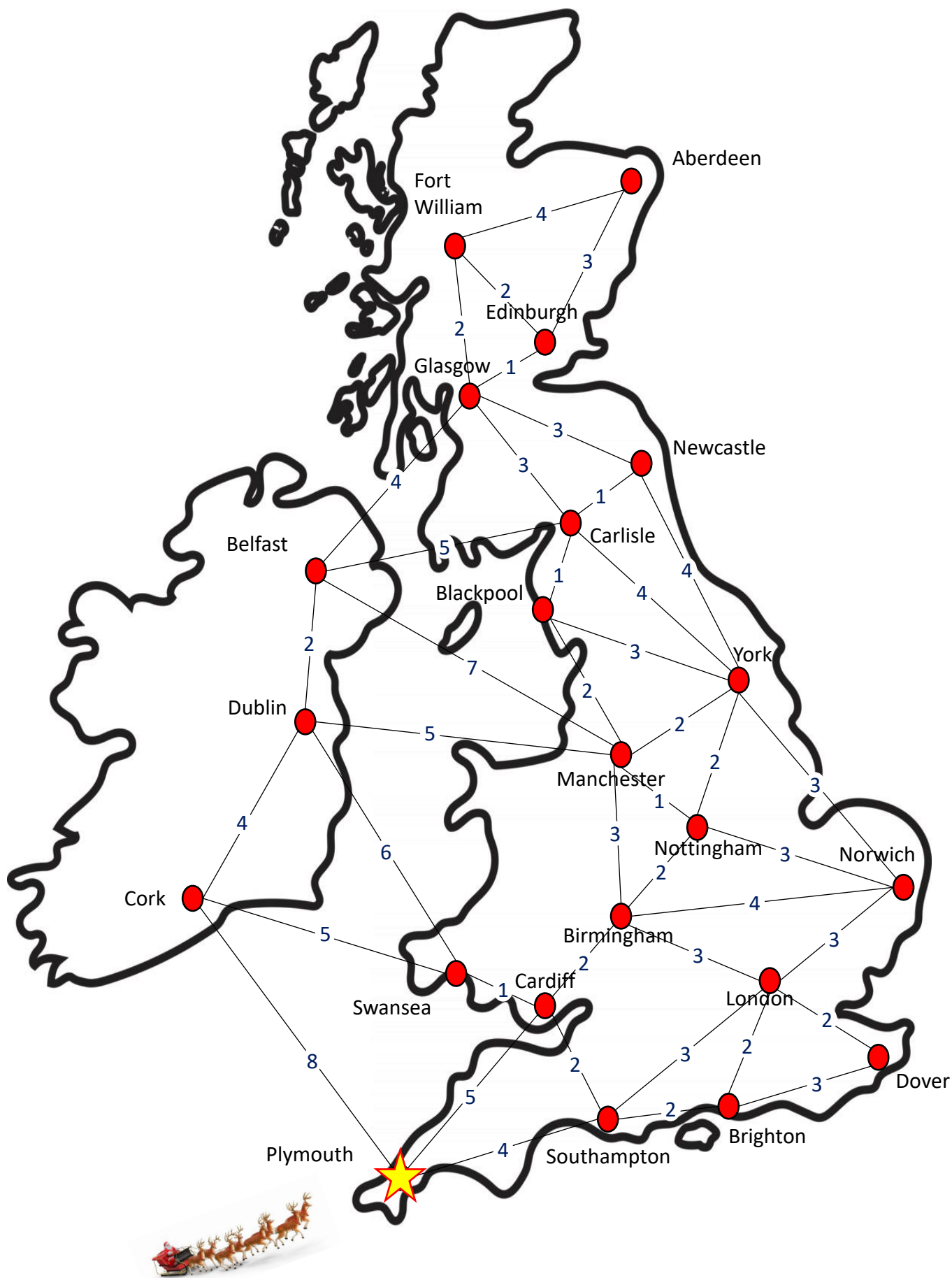


19.



20.





Santa has 1 hour (60 minutes) to deliver as many presents as possible to the UK.

You **must** start and end in Plymouth.

Each city has several presents to deliver to good children, shown on the right.

You can only deliver presents to a city **once**, but you may want to pass through it again.

The minutes it takes Santa to fly between cities, is shown on the map.

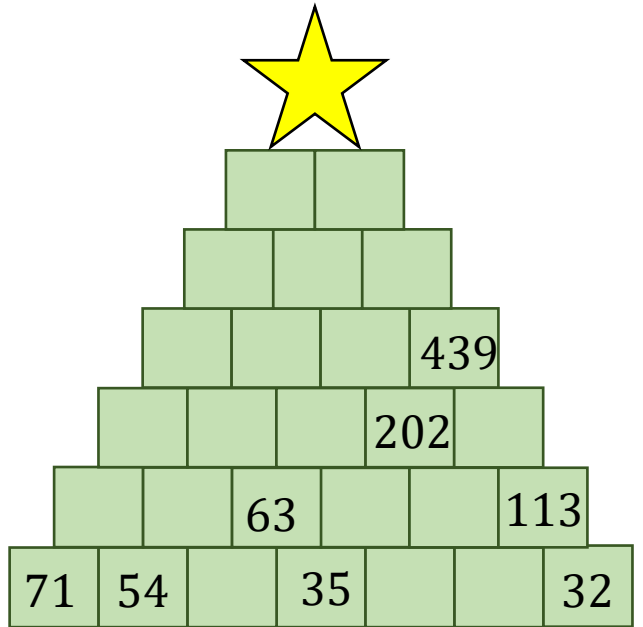
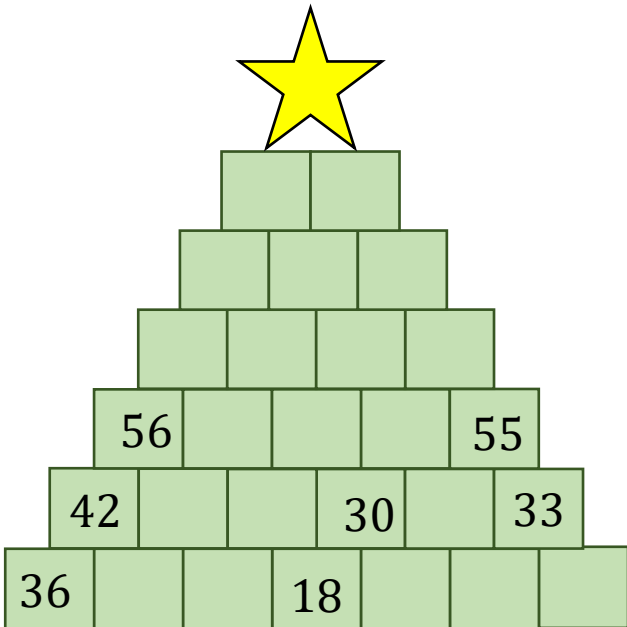
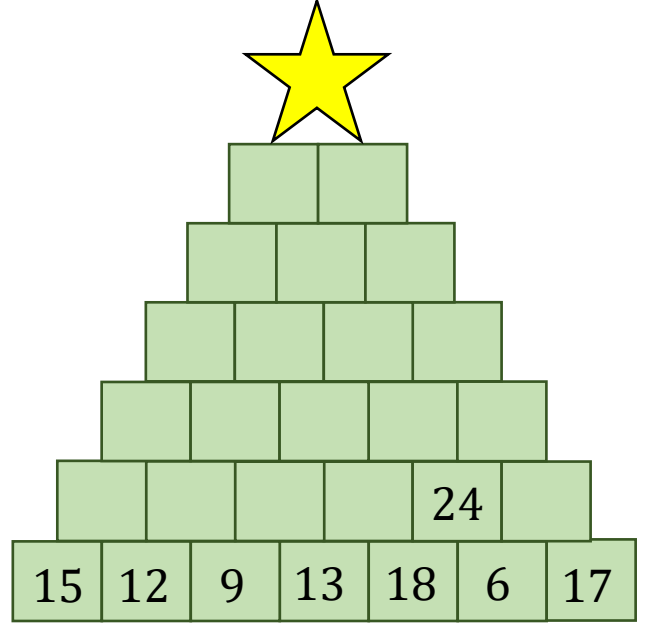
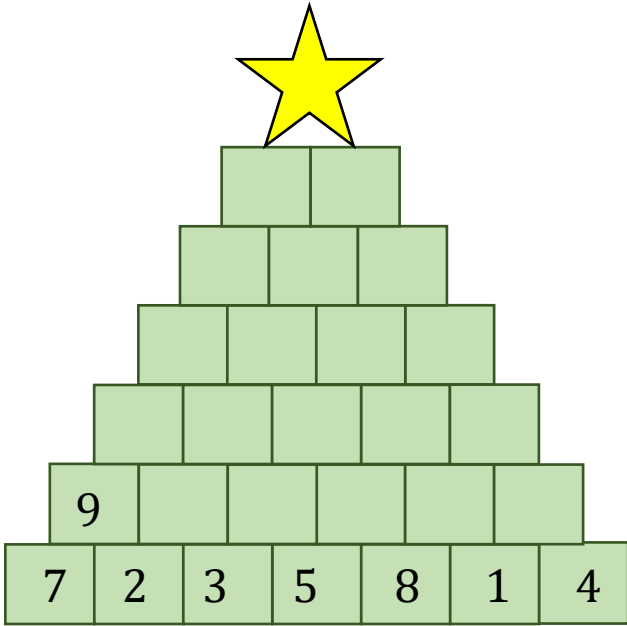
Try to deliver as many presents as possible!

[illegible]

City	Good children (Thousands)
Aberdeen	8
Belfast	12
Birmingham	15
Blackpool	7
Brighton	6
Cardiff	13
Carlisle	4
Cork	9
Dover	3
Dublin	10
Edinburgh	15
Fort William	2
Glasgow	6
London	18
Manchester	14
Newcastle	11
Norwich	8
Nottingham	5
Plymouth	14
Southampton	2
Swansea	7
York	13



a) Complete these Christmas ‘ADDITION’ trees



b) Add the 4 stars together to get the star total.