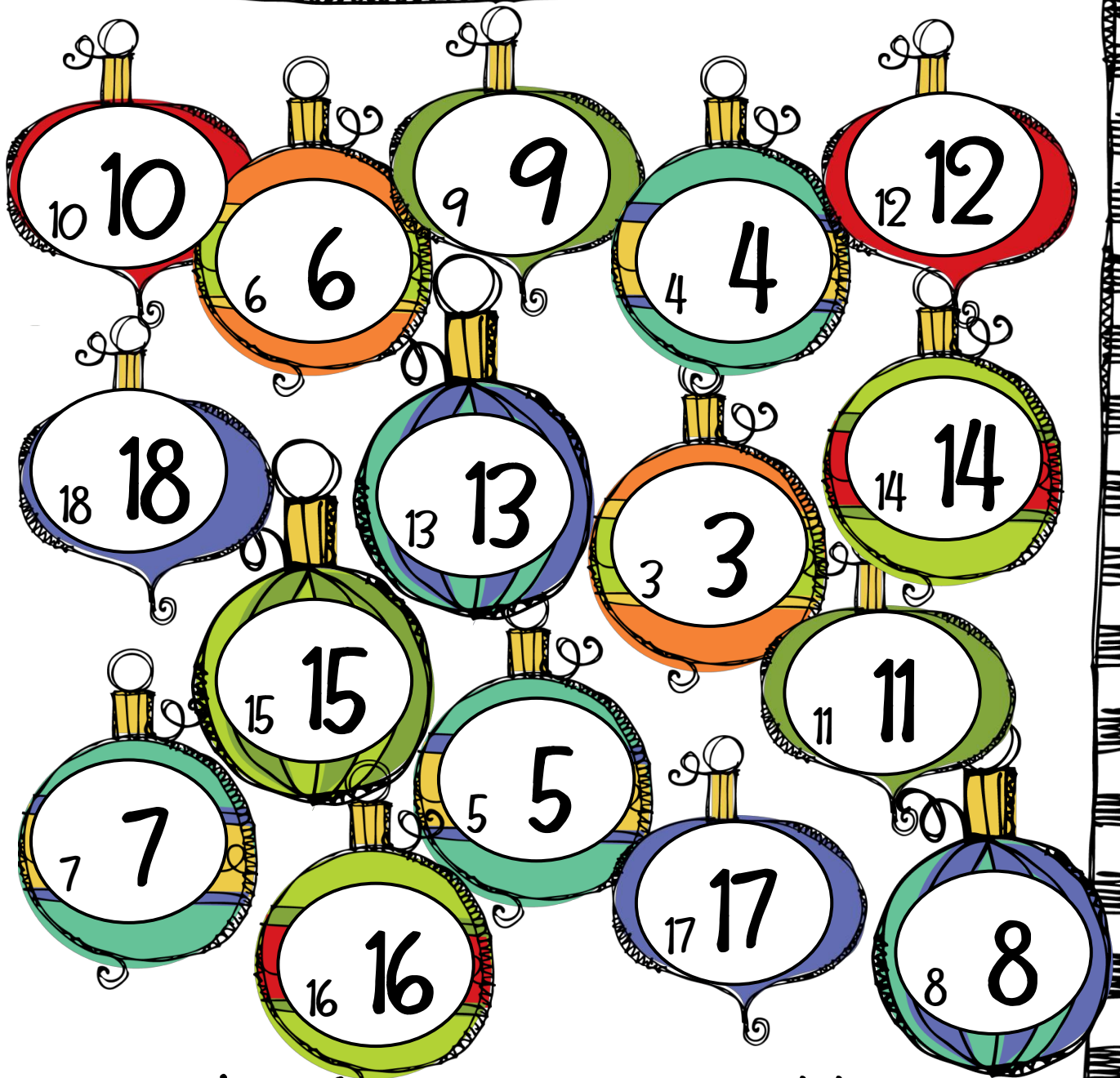


## Christmas Bump - Add 2

a game for 2 players

**Need:** 2 dice and 8 counters per player – each player uses a different color

**To Play:** Players take turns to roll the 2 dice and add the numbers together. Then they cover this number with one of their counters, covering the large number. If another player has covered that number, they can 'bump' that counter off and put one of their own counters on it. If that number is covered by one of the player's own counters, they can add another counter on top and then they have won that space. You can only 'bump' when there is only one counter on the number. The winner of the game is the first player to use all 8 of their counters.



## Christmas Bump - Add 3

a game for 2 players

**Need:** 3 dice and 10 counters per player – each player uses a different color

**To Play:** Players take turns to roll the 3 dice and add the numbers together. Then they cover this number with one of their counters, covering the large number. If another player has covered that number, they can 'bump' that counter off and put one of their own counters on it. If that number is covered by one of the player's own counters, they can add another counter on top and then they have won that space. You can only 'bump' when there is only one counter on the number. The winner of the game is the first player to use all 10 of their counters.

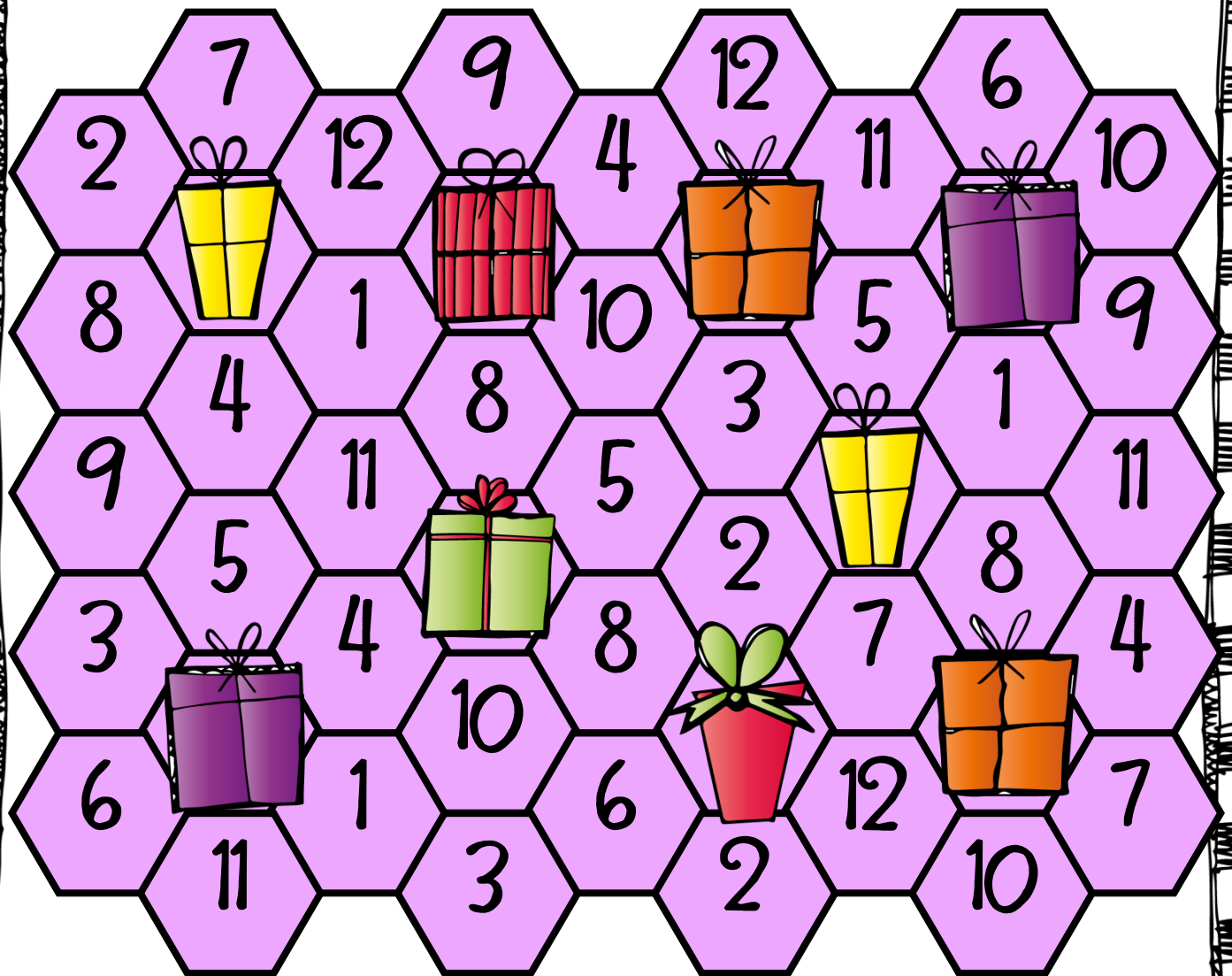


# Grab a Gift

a game for 2-4 players


**Need: counters, 2 dice**

Players take turns to roll the 2 dice, and find the total or the difference of these 2 numbers. They then place a counter over this number on the board. For example, if a player throws 2 and 6 the player could cover 4 ( $6-2$ ) or 8 ( $2+6$ ). Play continues until one of the gifts is surrounded with a counter on each of the spaces around it. The player who places the last counter to 'grab' this gift is the winner.



START	8	6 	10	13	15
-------	---	---	----	----	----


**Elf Friends Odd or Even** 16

34	30	25	23 	21	18
----	----	----	---	----	----

**35** **a game for 2-4 players**  
 Each player puts a counter on the Start. Players take turns to roll 2 dice and add the numbers together. If the total is an odd number the player moves to the next odd number. If the total is an even number the player moves to the next even number.

39	40	41 	48	49	55
----	----	---	----	----	----

For Example: If a player rolls 4 and 3 on their first throw, they would move to 13 because 4 and 3 make 7 which is odd and 13 is the first odd number.

72		70	68	64	61	59
----	---	----	----	----	----	----

**74** If you land on an elf, take the shortcut. The first player to reach the Finish is the winner. To land on the FINISH you must roll an odd number.

76	81	84	92	96	FINISH 99
----	----	----	----	----	--------------

START

4

6



8

10

12

# Elf Friends Doubles

14

4

24

22

20



18

16

6

## a game for 2-4 players

Each player puts a counter on the Start. Players take turns to roll 2 dice and add the number together. The player then doubles this number and moves to the next square with that double.

8

10

12



14

16

18

For Example: If a player throws 4 and 3 which add to 7, they would move to 14. If you land on an elf take the shortcut. The first player to reach the Finish is the winner.

20

10

8



6

4

24

22

12

To land on the FINISH you must roll a total of 6 or 8 to get a double of 12 or 16.

14

16

18

20

22

FINISH

12 16

# Santa Pick Three Addition

a game for 2 players  
Need: counters

Players take turns to search for 2 numbers that will add to a third number. The player then covers all 3 numbers with counters, e.g. on a turn a player could cover 5, 6 and 11. The last player who can cover a set of 3 numbers is the winner.



# Santa Pick Three Multiply

a game for 2 players  
Need: counters

Players take turns to search for 2 numbers that will multiply to a third number. The player then covers all 3 numbers with counters, e.g. on a turn a player could cover 2, 9 and 18. The last player who can cover a set of 3 numbers is the winner.



# Christmas Tree Cover All

a game for 2 players  
Need: 2 dice, counters



Each player chooses a Christmas tree to use for the game. Players take turns to roll the 2 dice.

The player then adds, subtracts, multiplies or divides the 2 numbers on the dice and covers the number they have created. For example, if a player throws 2 and 6, they could cover 8 ( $2+6$ ), 4 ( $6-2$ ), 12 ( $2 \times 6$ ) or 3 ( $6 \div 2$ ).

Play continues until one player has covered every number on their tree. This player is the winner.



# Christmas Four In A Row Add 10

a game for 2 players



12	16	14	19	13	17
19	15	20	15	18	16
13	18	12	17	21	13
18	16	19	15	22	20
22	14	13	21	12	15
20	17	20	19	18	21
14	21	16	14	17	22



# Christmas Four In A Row Multiples

a game for 2 players



32	54	20	50	25	40
48	15	22	36	16	27
28	42	30	21	32	60
33	20	25	45	24	18
21	48	36	15	33	42
27	16	24	55	28	22
40	30	56	18	45	44



# Christmas Four In A Row Add 10

a game for 2 players      Need: 2 dice, candy tokens (or counters)

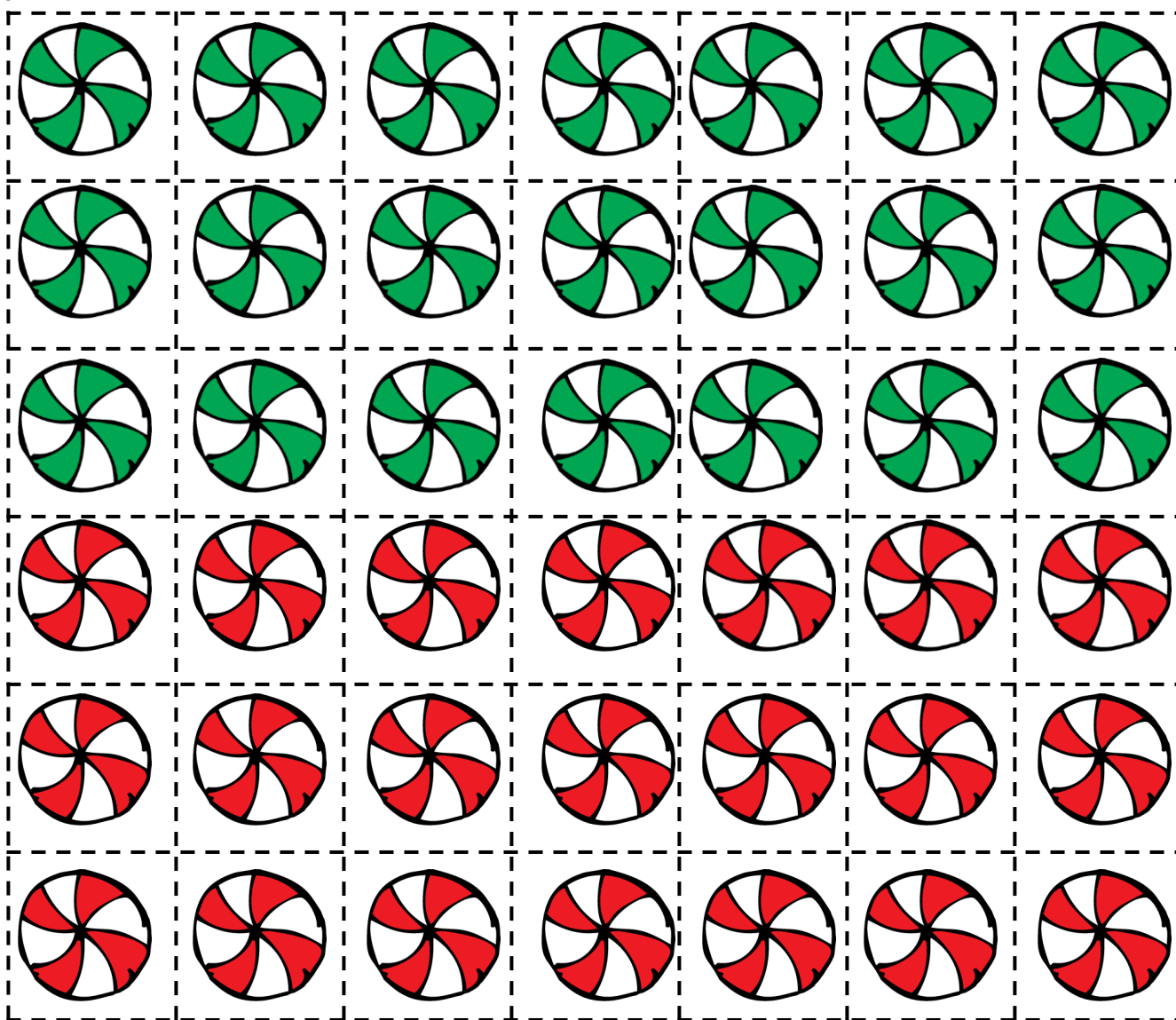
Each player uses a different colored candy token. Players take turns to roll 2 dice, add the numbers together and then add 10 to the total. The player then covers this number on the board, e.g. if you roll 6 and 3, this adds to 9 so you cover 19. If the number isn't available you don't cover a number on that turn. The first player to create a line of 4 of their candies – vertically, horizontally or diagonally – is the winner.

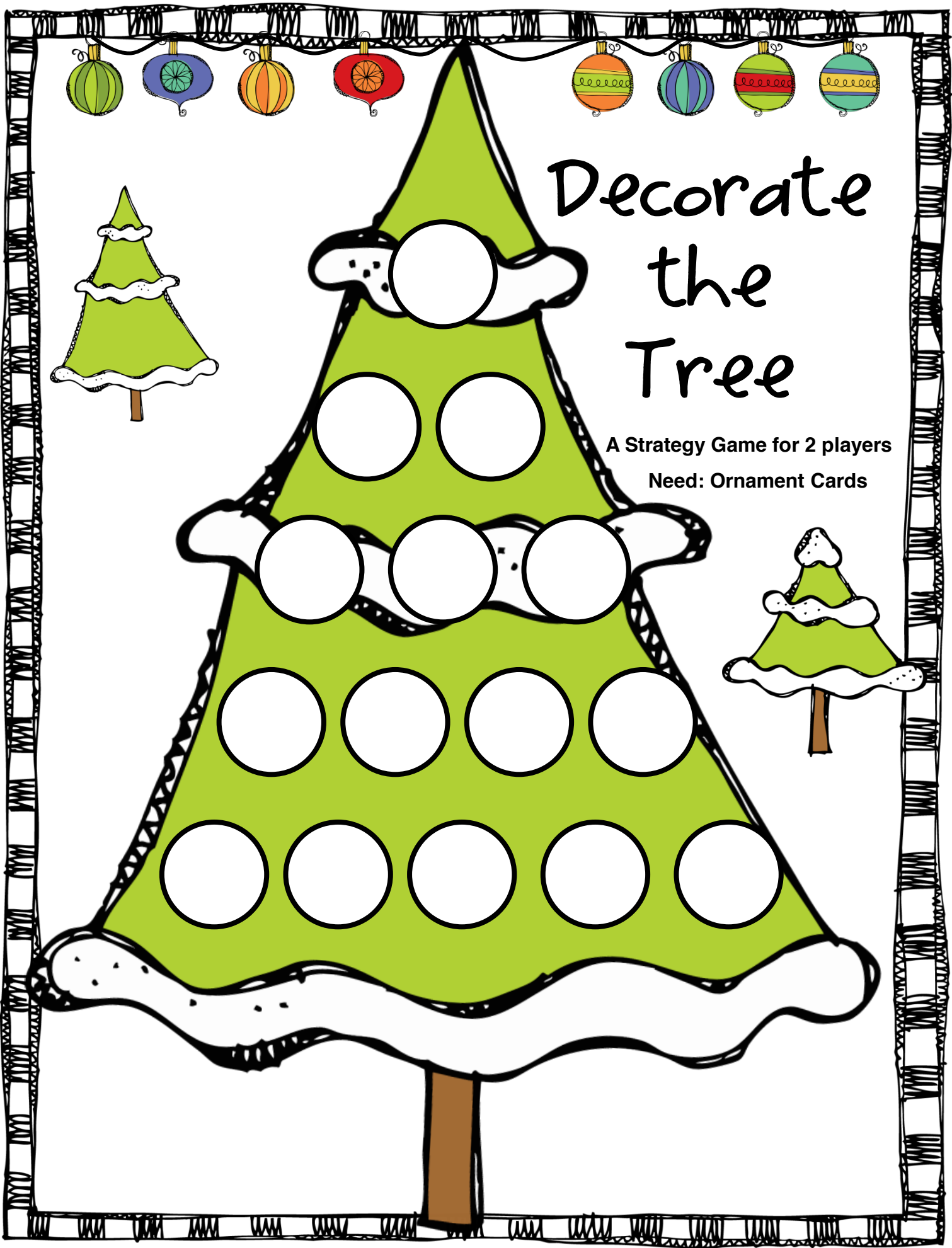


# Christmas Four In A Row Multiples

a game for 2 players      Need: 2 dice, candy tokens (or counters)

Each player uses a different colored candy token. Players take turns to roll 2 dice, add the numbers and cover any number on the board that is a multiple of this number, e.g. if you roll 6 and 3, this adds to 9 so you can cover 18, 27, 36, 45 or 54. If the number isn't available you don't cover a number on that turn. The first player to create a line of 4 of their candies – vertically, horizontally or diagonally – is the winner.





# Decorate the Tree

A Strategy Game for 2 players

Need: Ornament Cards

# Decorate the Tree

a strategy game for 2 players

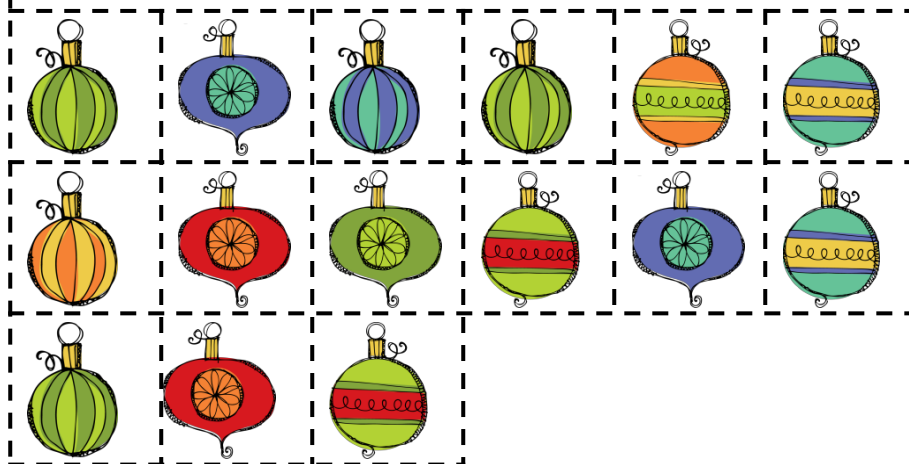


Players take turns to decorate the tree by covering a circle with an ornament. On each turn a player can cover as many circles in a row as they choose.

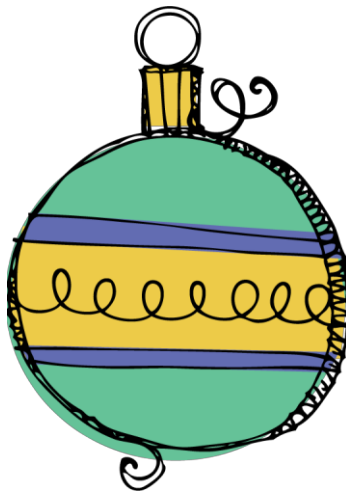
For example, on the bottom row a player could cover 1, 2, 3, 4 or 5 circles.

You can only cover circles from one row in each turn.

The player who covers the last circle on the tree with an ornament is the winner.



# Christmas Math Puzzles





# Find Four Set A



Find 4 numbers on the stocking that add to each number.

Each number can only be used once on a line. The first one is done to show you what to do.

11

1, 2, 3, 5

a. 12

b. 14

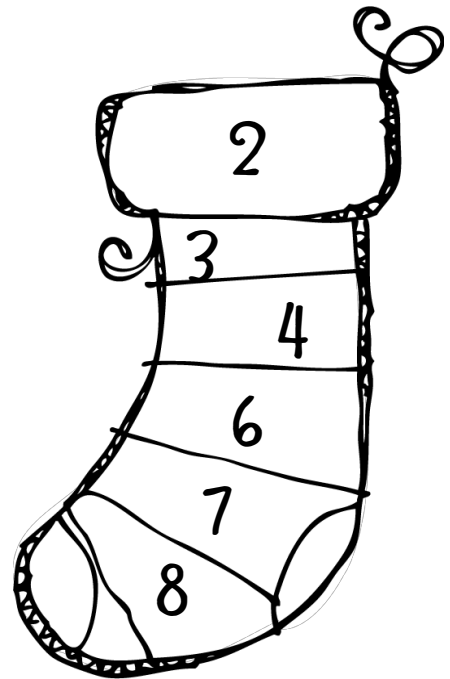
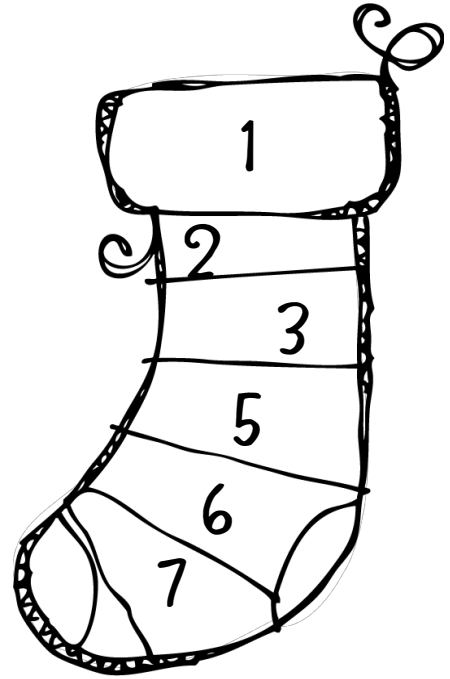
c. 16

d. 15

e. 17

f. 19

g. 20



For solution see page 38.



# Find Four Set B



Find 4 numbers on the stocking that add to each number.

Each number can only be used once on a line. The first one is done to show you what to do.

19

3, 4, 5, 7

a. 20

b. 23

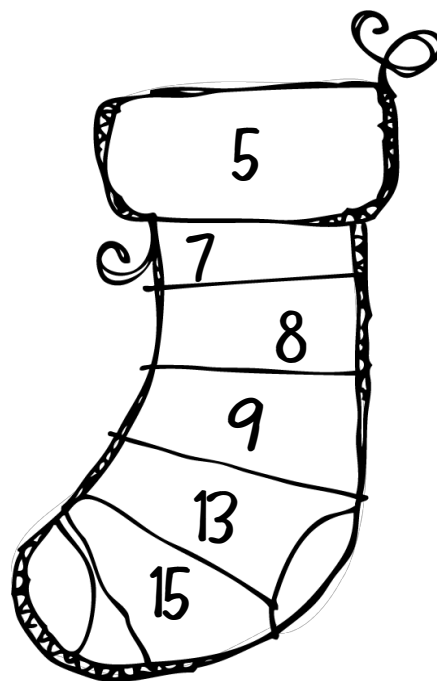
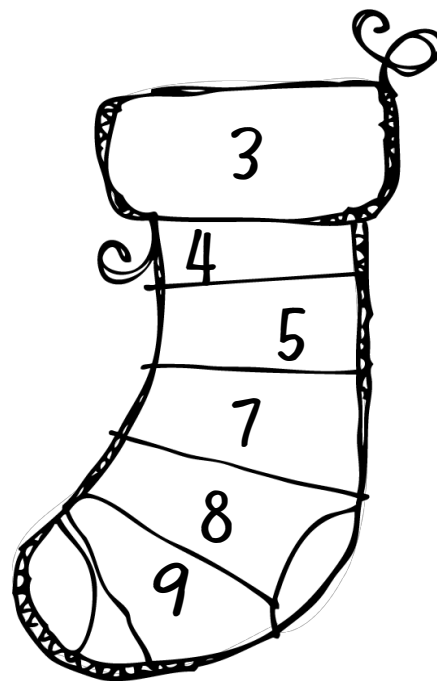
c. 28

d. 29

e. 34

f. 37

g. 43



For solution see page 38.



# Triangle Tree Totals

Place the numbers 1 – 6 in the circles so that each side of the triangle adds to the total on the gift under the tree.

9

10

11

12

For solution see page 22.

# Triangle Tree Totals Solutions

One possible solution is given for each.

Place the numbers 1 – 6 in the circles so that each side of the triangle adds to the total on the gift under the tree.

The image shows five triangle trees, each with a gift box at its base. The numbers in the circles are as follows:

- Tree 1 (top): 3, 6, 2, 1, 4, 5. Gift: 10.
- Tree 2 (middle-left): 3, 5, 4, 1, 6, 2. Gift: 9.
- Tree 3 (middle-right): 4, 1, 5, 6, 3, 2. Gift: 11.
- Tree 4 (bottom-left): 5, 1, 3, 6, 2, 4. Gift: 12.
- Tree 5 (bottom-right): 5, 1, 3, 6, 2, 4. Gift: 12.

# Three Gifts



I have to wrap 3 gifts. I have red, green, yellow and blue paper.

How many different combinations of colors can I use to wrap the 3 gifts? Color the gifts below to show the different combinations that I could use. You can use a color more than once but don't use the same colors in a different order.

To help you start the first 2 sets have the colors suggested with the first letter of the color.

R

G

Y

R

R

R



For solution see page 38.

# 12 Days of Christmas - Add to 12



I can add to 12. Find adjoining pairs of numbers that add to 12. Circle each pair. Each pair must be side by side or one above the other.

4	4	6	8	7	2	6	1	11	1	4	5	10
3	8	1	11	5	10	6	3	6	11	8	4	8
2	10	6	6	4	8	4	2	10	2	9	3	1
3	3	1	11	8	9	3	10	4	5	6	7	11
5	9	7	1	3	7	5	2	8	4	8	5	8
5	7	5	9	3	3	9	1	11	4	7	5	10
9	2	7	5	9	4	3	8	4	6	6	7	2

## Play the 12 Days of Christmas Game With a Friend



Twelve Drummers Drumming...

On a new copy of this sheet – take turns to circle a pair that adds to 12. The last player who can circle a pair is the winner.

# Merry Christmas



Each letter has a value.

Work out the answer for each fact. Write the letter for the answer below it and you will make 3 words. Answer the question using one of these words.

M e r r y C h r i s t m a s  
 1 2 3 3 4 5 6 3 7 8 9 1 10 8

4 2 1 3 3 3 4 2 1 5 4  
+1 +8 +2 +1 +7 +2 +2 +7 +4 +5 +5

— — — — — — — — — — —

Which of these would you like to receive as a gift? A toy \_\_\_\_\_

5 4 0 2 3 2 1 6 1 0 3 0 2 8 1  
+1 +6 +1 +1 +4 +3 +1 +1 +4 +2 +2 +3 +0 +2 +0

— — — — — — — — — — —

Which of these would you like to eat on Christmas day? \_\_\_\_\_

5 1 9 2 5 4 7 3 5 1 2 1  
+1 +1 +1 +1 +4 +2 +3 +6 +3 +8 +8 +2

— — — — — — — — — — —

Which of these would you like to have on top of the Christmas tree? \_\_\_\_\_

For solution see page 26.

# Merry Christmas Solutions



Each letter has a value.

Work out the answer for each fact. Write the letter for the answer below it and you will make 3 words. Answer the question using one of these words.

M e r r y                      C h r i s t m a s  
 1 2 3 3 4                      5 6 3 7 8 9 1 10 8

4 2 1            3 3 3 4 2            1 5 4  
+1 +8 +2        +1 +7 +2 +2 +7        +4 +5 +5  
 5 10 3            4 10 5 6 9            5 10 9

c a r            y a c h t            c a t

Which of these would you like to receive as a gift? A toy \_\_\_\_\_

5 4 0            2 3 2 1            6 1 0 3 0 2 8 1  
+1 +6 +1        +1 +4 +3 +1        +1 +4 +2 +2 +3 +0 +2 +0  
 6 10 1            3 7 5 2            7 5 2 5 3 2 10 1

h a m            r i c e            i c e c r e a m

Which of these would you like to eat on Christmas day? \_\_\_\_\_

5 1 9 2 5            4 7 3            5 1 2 1  
+1 +1 +1 +1 +4        +2 +3 +6        +3 +8 +8 +2  
 6 2 10 3 9            6 10 9            8 9 10 3

h e a r t            h a t            s t a r

Which of these would you like to have on top of the Christmas tree? \_\_\_\_\_

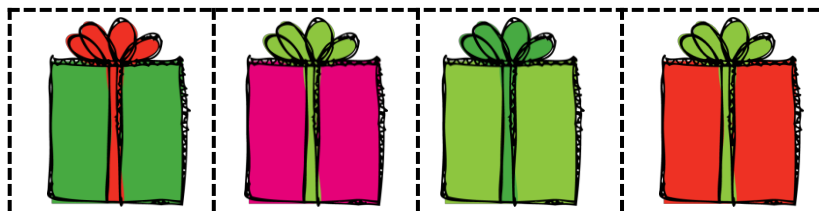
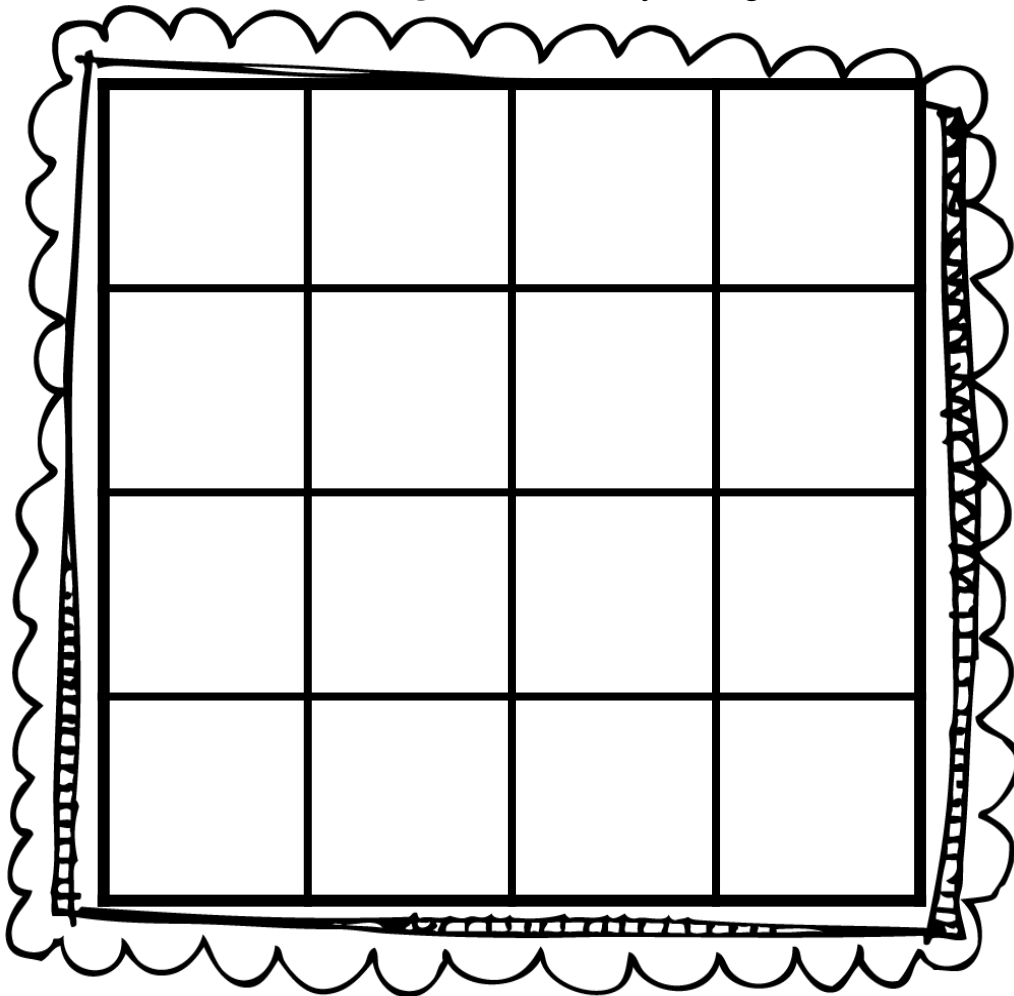
# Four Gifts



Three crosses have been placed in this 3x3 grid so that there is only one cross in each row and each column.

	x	
x		
		x

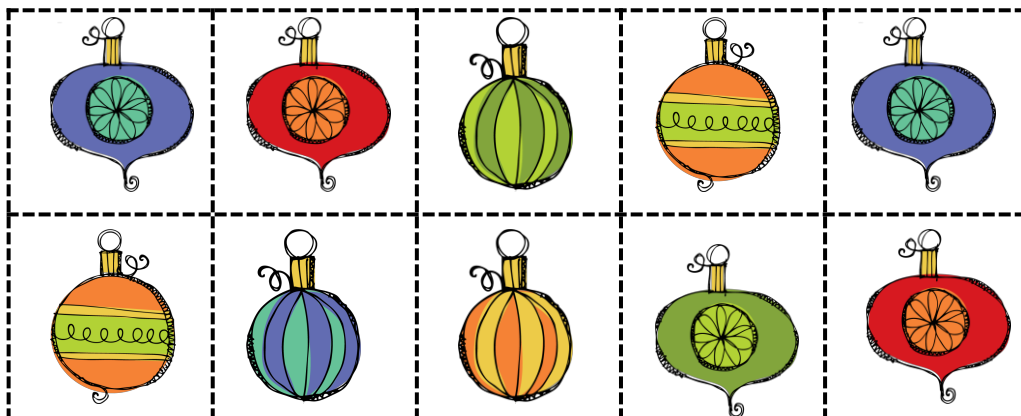
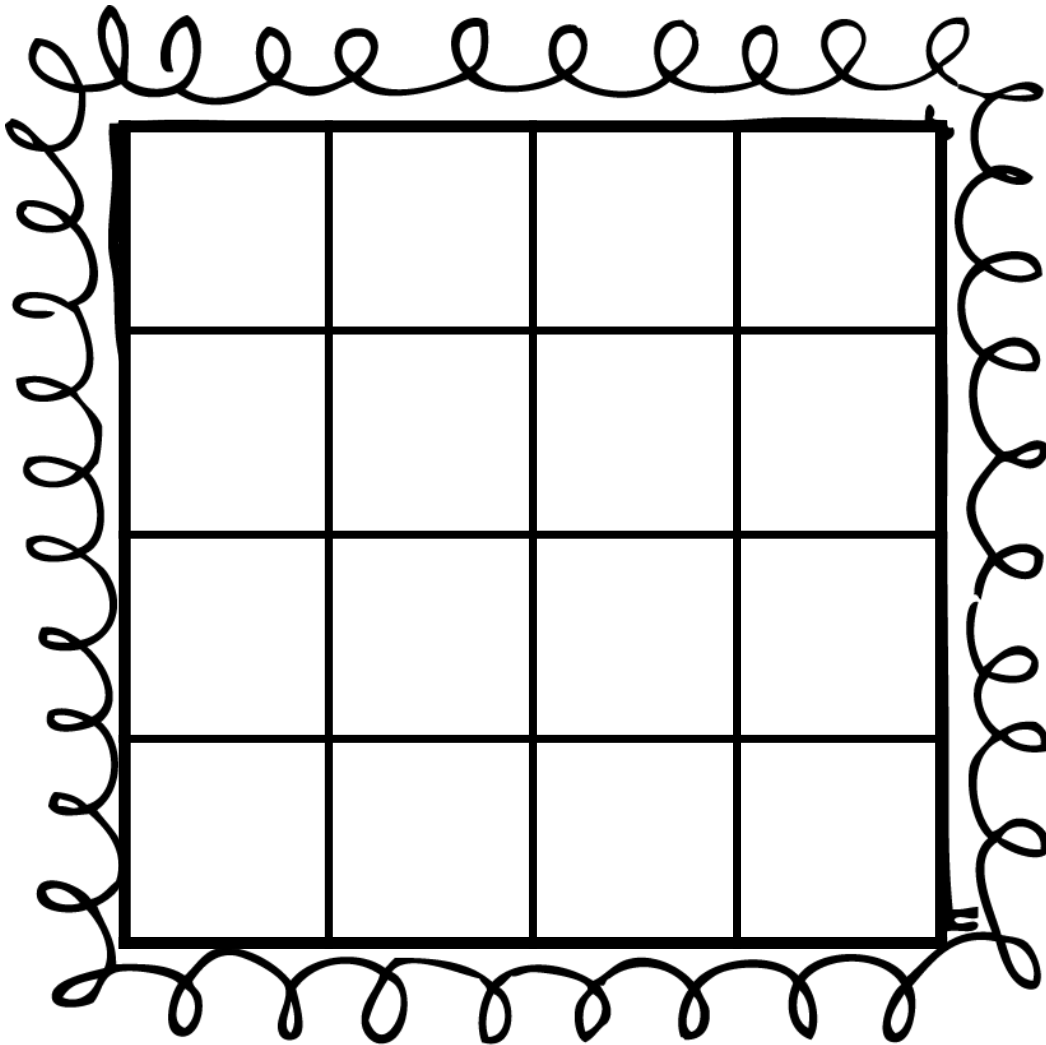
Can you cut out the gifts below and glue the 4 gifts onto this 4x4 grid so each **row**, each **column** and each **diagonal** has only one gift?



For solution see page 38.

# Ten Ornaments

Cut out the 10 ornaments and glue them onto the grid below so that each row, each column and each diagonal has an **even** number of ornaments.



For solution see page 38.



# Christmas Math Brain Teasers

## Different Formats

Each Brain Teaser is presented in 2 different formats.

This allows the cards  
to be used in three different ways.

Large Card size with 2 to a page.

Mini Card size with 6 to a page.

Worksheet – the mini cards with 6 to a page can also be  
used as a worksheet. Just print one for each student.



# 1. Elves and Reindeer

The elves and reindeer are getting ready for a meeting with Santa.

14 of them have arrived.

If they have 38 legs between them, how many reindeer are at the meeting and how many elves are at the meeting?



# 2. Santa's Elves

Each elf can wrap 1 gift in one minute.

How many gifts can 5 elves wrap in three minutes?

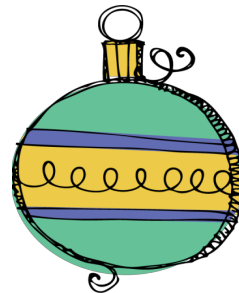


### 3. Christmas Cards

Four friends, Tom, Lisa, Braydon and Peta give each other Christmas Cards.

If each one of them gives out a card to each of their friends, how many Christmas Cards are given out altogether?

How many cards would be given out if 7 friends each give each other Christmas cards?



### 4. Gift Wrapping

Jenni and Marcus are wrapping Christmas gifts.

Jenni has wrapped 5 more than Marcus.

Together they have wrapped 17 gifts.

How many gifts has Marcus wrapped?



5.

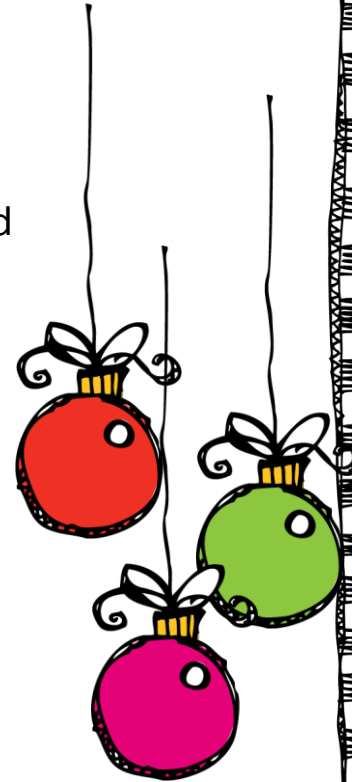
## Decorations

Henry and Liza are decorating the Christmas tree.

Henry took half of the decorations out of the box and put them on the tree. Liza took half of the remaining decorations and put them on the tree.

Then there were 3 decorations left.

How many decorations were in the box to begin?



6.

## Snow Friends

The Snowmen and Snowwomen are comparing their heights.

Frosty, Snow White, Jack Frost and Snow Flake are lining up in order from shortest to tallest.

Frosty is not the tallest or the shortest.

Snow White is taller than Jack Frost and Snow Flake.

Jack Frost is shorter than Frosty.

Jack Frost is not the shortest.

In what order are they standing?



## 7. Santa's Favorite Number

Santa has a favorite number.

It is larger than 18 and smaller than 37.

The sum of the digits is 7.

It is an odd number.

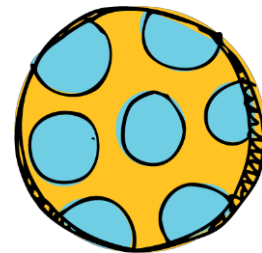
What is Santa's favorite number?



## 8. Christmas Gifts

Carla is getting 2 gifts from her brother Harry. She has asked for a teddy bear, ball, doll or book.

How many different combinations could Harry give her, e.g. a ball and doll would be one combination?

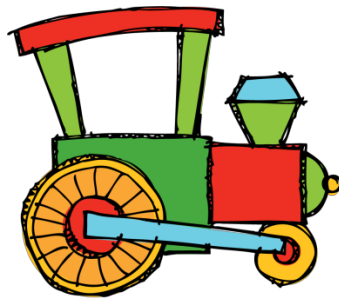


## 9. Uncle Tom's Gifts

Uncle Tom has a gift for his nephews and niece. Steven, Tracy and Paul are getting a train, a bear and a kite.

Steven isn't getting a bear or a train. Paul isn't getting a train.

What gift does Uncle Tom have for each?



## 10. Busy Elves

The elves have made 18 gifts today.

Some of them are teddy bears and some are trains.

If there are 2 teddies for every train, how many teddy bears have they made today?



11.

## Candy Canes

How many candy canes do I have?

I have more than 15 but less than 30.

If 2 people share them evenly, there will be 1 left over.

If 3 people share them evenly, there will be 2 left over.

If 4 people share them evenly, there will be 3 left over.



12.

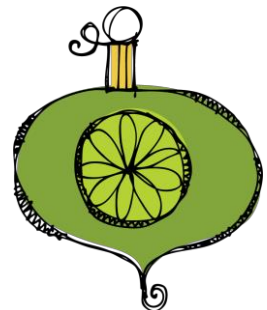
## Two Colors

Tania is decorating her bedroom with Christmas decorations.

She is only going to use two different colored decorations.

She can choose from 6 colors - red, green, pink, orange, blue and silver.

How many different color combinations could she choose from? Example – red and green



# Christmas Brain Teasers A

## 1. Elves and Reindeer

The elves and reindeer are getting ready for a meeting with Santa. 14 of them have arrived. If they have 38 legs between them, how many reindeer are at the meeting and how many elves are at the meeting?



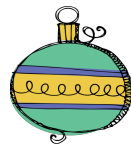
## 2. Santa's Elves

Each elf can wrap 1 gift in one minute. How many gifts can 5 elves wrap in three minutes?



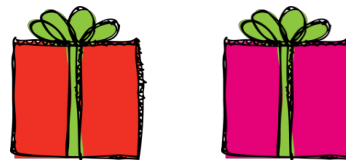
## 3. Christmas Cards

Four friends, Tom, Lisa, Braydon and Peta give each other Christmas Cards. If each one of them gives out a card to each of their friends, how many Christmas Cards are given out altogether? How many cards would be given out if 7 friends each give each other Christmas cards?



## 4. Gift Wrapping

Jenni and Marcus are wrapping Christmas gifts. Jenni has wrapped 5 more than Marcus. Together they have wrapped 17 gifts. How many gifts has Marcus wrapped?



## 5. Decorations

Henry and Liza are decorating the Christmas tree. Henry took half of the decorations out of the box and put them on the tree. Liza took half of the remaining decorations and put them on the tree. Then there were 3 decorations left. How many decorations were in the box to begin?



## 6. Snow Friends

The Snowmen and Snowwomen are comparing their heights. Frosty, Snow White, Jack Frost and Snow Flake are lining up in order from shortest to tallest. Frosty is not the tallest or the shortest. Snow White is taller than Jack Frost and Snow Flake. Jack Frost is shorter than Frosty. Jack Frost is not the shortest. In what order are they standing?





# Christmas Brain Teasers B

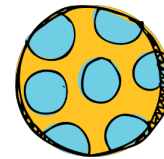
## 7. Santa's Favorite Number

Santa has a favorite number.  
It is larger than 18 and smaller than 37.  
The sum of the digits is 7.  
It is an odd number.  
What is Santa's favorite number?



## 8. Christmas Gifts

Carla is getting 2 gifts from her brother Harry. She has asked for a teddy bear, ball, doll or book.  
How many different combinations could Harry give her, e.g. a ball and doll would be one combination?



## 9. Uncle Tom's Gifts

Uncle Tom has a gift for his nephews and niece. Steven, Tracy and Paul are getting a train, a bear and a kite.  
Steven isn't getting a bear or a train.  
Paul isn't getting a train.  
What gift does Uncle Tom have for each?



## 10. Busy Elves

The elves have made 18 gifts today. Some of them are teddy bears and some are trains.  
If there are 2 teddies for every train, how many teddy bears have they made today?



## 11. Candy Canes

How many candy canes do I have?  
I have more than 15 but less than 30.  
If 2 people share them evenly, there will be 1 left over.  
If 3 people share them evenly, there will be 2 left over.  
If 4 people share them evenly, there will be 3 left over.



## 12. Two Colors

Tania is decorating her bedroom with Christmas decorations. She is only going to use two different colored decorations.  
She can choose from 6 colors - red, green, pink, orange, blue and silver.  
How many different color combinations could she choose from?  
Example - red and green



# Christmas Math Puzzle Solutions

## Find Four Set A

One possible solution is given for each

- a.  $12 - 1, 2, 3, 6$
- b.  $14 - 1, 2, 5, 6$
- c.  $16 - 1, 3, 5, 7$
- d.  $15 - 2, 3, 4, 6$
- e.  $17 - 2, 3, 4, 8$
- f.  $19 - 2, 3, 6, 8$
- g.  $20 - 2, 4, 6, 8$

## Find Four Set B

One possible solution is given for each

- a.  $20 - 3, 4, 5, 8$
- b.  $23 - 3, 5, 7, 8$
- c.  $28 - 4, 7, 8, 9$
- d.  $29 - 5, 7, 8, 9$
- e.  $34 - 5, 7, 9, 13$
- f.  $37 - 7, 8, 9, 13$
- g.  $43 - 7, 8, 13, 15$

## Four Gifts

One possible solution is given

			x
x			
		x	
	x		

## Ten Ornaments

One possible solution is given

x	x	x	x
x	x		
x		x	
x			x

## Three Gifts

20 possible combinations

- |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|
| RGY | RRR | RRB | YYR | BBG | GGY |
| RBY | GGG | RRG | YYG | BBY | GGB |
| RGB | BBB | RRY | YYB | BBR | GGR |
| GBY | YYY |     |     |     |     |

# Brain Teaser Solutions

## 1. Elves and Reindeer

9 elves and 5 reindeer

## 2. Santa's Elves

15 gifts

## 3. Christmas Cards

12 cards, 7 friends – 42 cards

## 4. Gift Wrapping

Marcus – 6 gifts

## 5. Decorations

12 Decorations

## 6. Snow Friends

Snow Flake, Jack Frost, Frosty, Snow White

## 7. Santa's Favorite Number

25

## 8. Christmas Gifts

6 combinations

## 9. Uncle Tom's Gifts

Steven – kite, Tracy – train, Paul – bear

## 10. Busy Elves

12 Teddy bears

## 11. Candy Canes

23 candy canes

## 12. Two Colors

15 Color combinations