

GRAND



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**Use your filled in calendar to help you answer the following questions**

1. On which day of the week is Christmas day this year? \_\_\_\_\_

2. On which day of the week is Christmas Eve this year? \_\_\_\_\_

3. On which day of the week is St. Stephen's Day this year? \_\_\_\_\_

4. On which day of the week is New Year's Eve this year? \_\_\_\_\_

\_\_\_\_\_

5. What is the day and date exactly two weeks before Christmas Day?

\_\_\_\_\_

6. What is the day and date two weeks and five days before Christmas Day? \_\_\_\_\_

7. What is the day and date eight days before Christmas day?

\_\_\_\_\_

8. What is the day and date one week and three days before Christmas Day? \_\_\_\_\_

9. On what day of the week does Dec 8<sup>th</sup> fall? \_\_\_\_\_

10. What is the date of the Sunday after Christmas Day? \_\_\_\_\_

11. What is the day and date five days after Christmas Day?

\_\_\_\_\_

12. What is the day and date one week after Christmas Day?

\_\_\_\_\_



# THE TWELVE DAYS OF CHRISTMAS



On the first day of Christmas  
my true love sent to me:  
A Partridge in a Pear Tree

On the second day of  
Christmas  
my true love sent to me:  
Two Turtle Doves  
and a Partridge in a Pear Tree



On the third day of Christmas  
my true love sent to me:  
Three French Hens  
Two Turtle Doves  
and a Partridge in a Pear Tree



On the fourth day of Christmas  
my true love sent to me:  
Four Calling Birds  
Three French Hens  
Two Turtle Doves  
and a Partridge in a Pear Tree



On the fifth day of Christmas  
my true love sent to me:  
Five Golden Rings  
Four Calling Birds  
Three French Hens  
Two Turtle Doves  
and a Partridge in a Pear Tree



On the sixth day of Christmas  
my true love sent to me:  
Six Geese a Laying  
Five Golden Rings  
Four Calling Birds  
Three French Hens  
Two Turtle Doves  
and a Partridge in a Pear Tree



On the seventh day of  
Christmas  
my true love sent to me:  
Seven Swans a Swimming  
Six Geese a Laying  
Five Golden Rings  
Four Calling Birds  
Three French Hens  
Two Turtle Doves  
and a Partridge in a Pear Tree



On the eighth day of Christmas  
my true love sent to me:  
Eight Maids a Milking  
Seven Swans a Swimming  
Six Geese a Laying  
Five Golden Rings  
Four Calling Birds  
Three French Hens  
Two Turtle Doves  
and a Partridge in a Pear Tree

On the ninth day of Christmas  
my true love sent to me:  
Nine Ladies Dancing  
Eight Maids a Milking  
Seven Swans a Swimming  
Six Geese a Laying  
Five Golden Rings  
Four Calling Birds  
Three French Hens  
Two Turtle Doves  
and a Partridge in a Pear Tree

On the tenth day of Christmas  
my true love sent to me:  
Ten Lords a Leaping  
Nine Ladies Dancing  
Eight Maids a Milking  
Seven Swans a Swimming  
Six Geese a Laying  
Five Golden Rings  
Four Calling Birds  
Three French Hens  
Two Turtle Doves  
and a Partridge in a Pear Tree

On the eleventh day of  
Christmas  
my true love sent to me:  
Eleven Pipers Piping  
Ten Lords a Leaping  
Nine Ladies Dancing  
Eight Maids a Milking  
Seven Swans a Swimming  
Six Geese a Laying  
Five Golden Rings  
Four Calling Birds  
Three French Hens  
Two Turtle Doves  
and a Partridge in a Pear Tree

On the twelfth day of Christmas  
my true love sent to me:  
12 Drummers Drumming  
Eleven Pipers Piping  
Ten Lords a Leaping  
Nine Ladies Dancing  
Eight Maids a Milking  
Seven Swans a Swimming  
Six Geese a Laying  
Five Golden Rings  
Four Calling Birds  
Three French Hens  
Two Turtle Doves  
and a Partridge in a Pear Tree



## THE TWELVE DAYS OF CHRISTMAS

Read the words of the song and answer the questions below

**How many presents were given each day?**

DAY		TOTAL
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

Look at the **total** column. Do you notice anything about the pattern of numbers?

\_\_\_\_\_

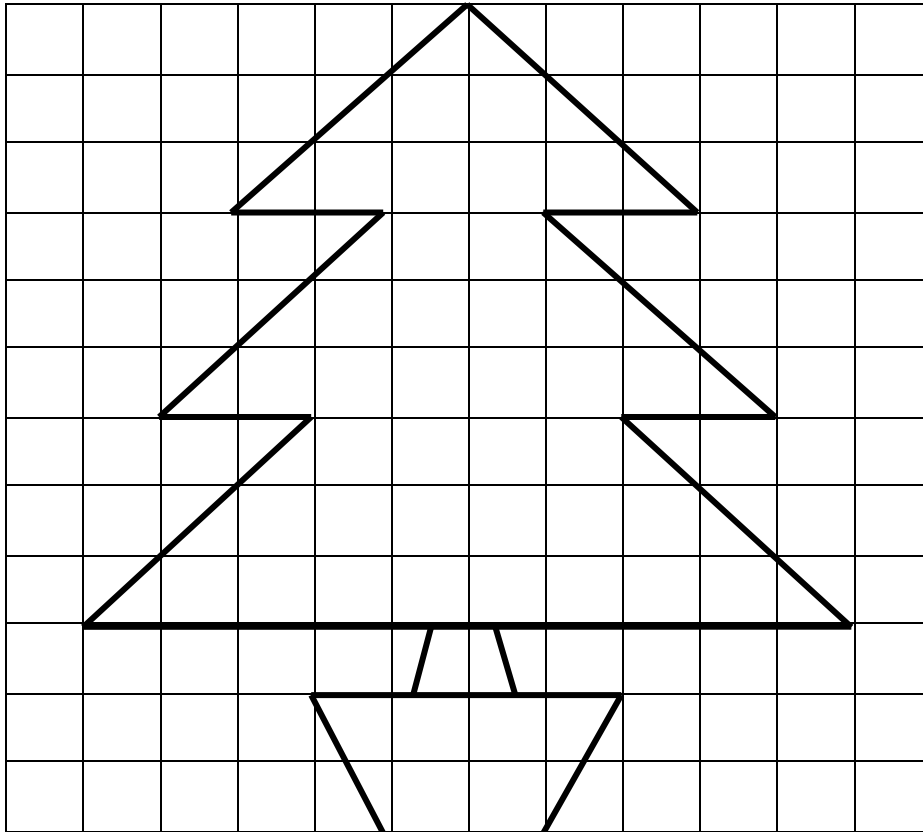
**How many of each type of present was given altogether?**

PRESENT		TOTAL
Partridge		
Turtle doves		
French hens		
Calling birds		
Gold rings		
Geese		
Swans		
Maids		
Ladies		
Lords		
Pipers		
Drummers		

Which was the present that the true love gave the most of? \_\_\_\_\_

Which was the present that the true love gave the least of? \_\_\_\_\_

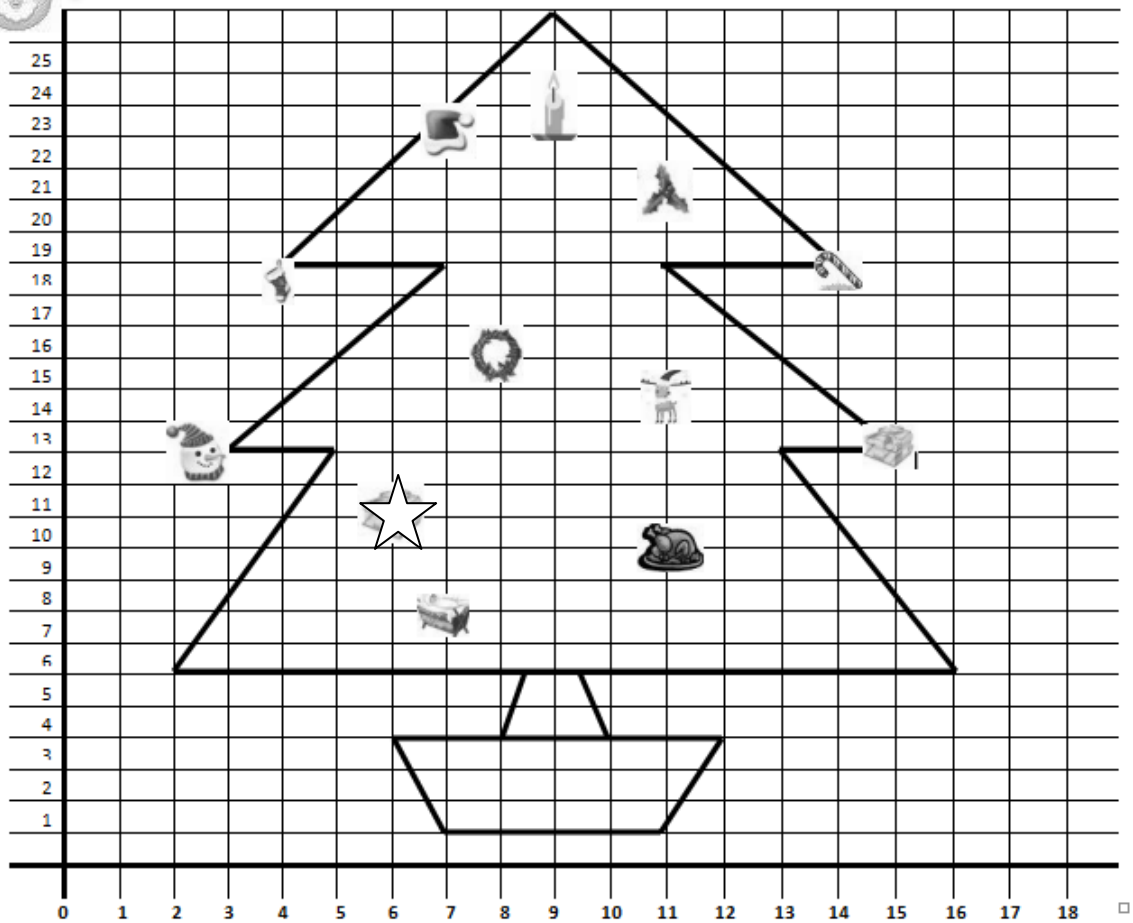
## Length and Area



1. Estimate the area of the pot \_\_\_\_\_
2. Find the area of the pot \_\_\_\_\_
3. Estimate the area of the Christmas tree including its trunk \_\_\_\_\_
4. Find the area of the Christmas tree including its trunk \_\_\_\_\_
5. Measure the perimeter of the pot to the nearest mm \_\_\_\_\_
6. Measure the perimeter of the tree (without the trunk) to the nearest mm \_\_\_\_\_



## Christmas Co-ordinates



Write the co-ordinates of the following:

Crib ( \_ \_ )

Turkey ( \_ \_ )

Holly ( \_ \_ )

Wreath ( \_ \_ )

Reindeer Head ( \_ \_ )

Gift ( \_ \_ )

Walking stick ( \_ \_ )

Star ( \_ \_ )

Walking Stick ( \_ \_ )

Santa Hat ( \_ \_ )

Tip of Candle Flame ( \_ \_ )

Snowman Nose ( \_ \_ )





## MAM'S CHRISTMAS SHOPPING LIST!

Can you help your mam to do the Christmas shopping?  
Look through your Argos catalogues and find presents  
for all the family!

Make sure that you don't go over the budget of €600!!!

Dad wants an electric  
shaver and new watch.

### Dad

Page number:    Item:

Cost:

Page number:    Item:

Cost:

Grandad wants a golf bag  
and some golf balls.

### Grandad

Page number:    Item:

Cost:

Page number:    Item:

Cost:

Grandma would like  
jewellery.

### Granny

Page number:    Item:

Cost:

Page number:    Item:

Cost:

Jane, 8, wants a Barbie and a bike.

Jane

Page number:    Item:

Cost:

Page number:    Item:

Cost:

Jack, 13, wants a football and a mobile phone.

Jack

Page number:    Item:

Cost:

Page number:    Item:

Cost:



Mam has spent:

€

Any change? Make a list of what Christmas bits and pieces you would buy with the spare change:

## Co-ordinates: Draw the reindeer using the co-ordinates below

### Nose:

(8,11) (7,12) (7,13) (8,14) (10,14) (11,13) (11,12) (10,11) (8,11)

### Eyes:

1. (5,16) (5,18) (7,18) (7,16) (5,16)
2. (11,16) (11,18) (13,18) (13,16) (11,16)

### Antlers:

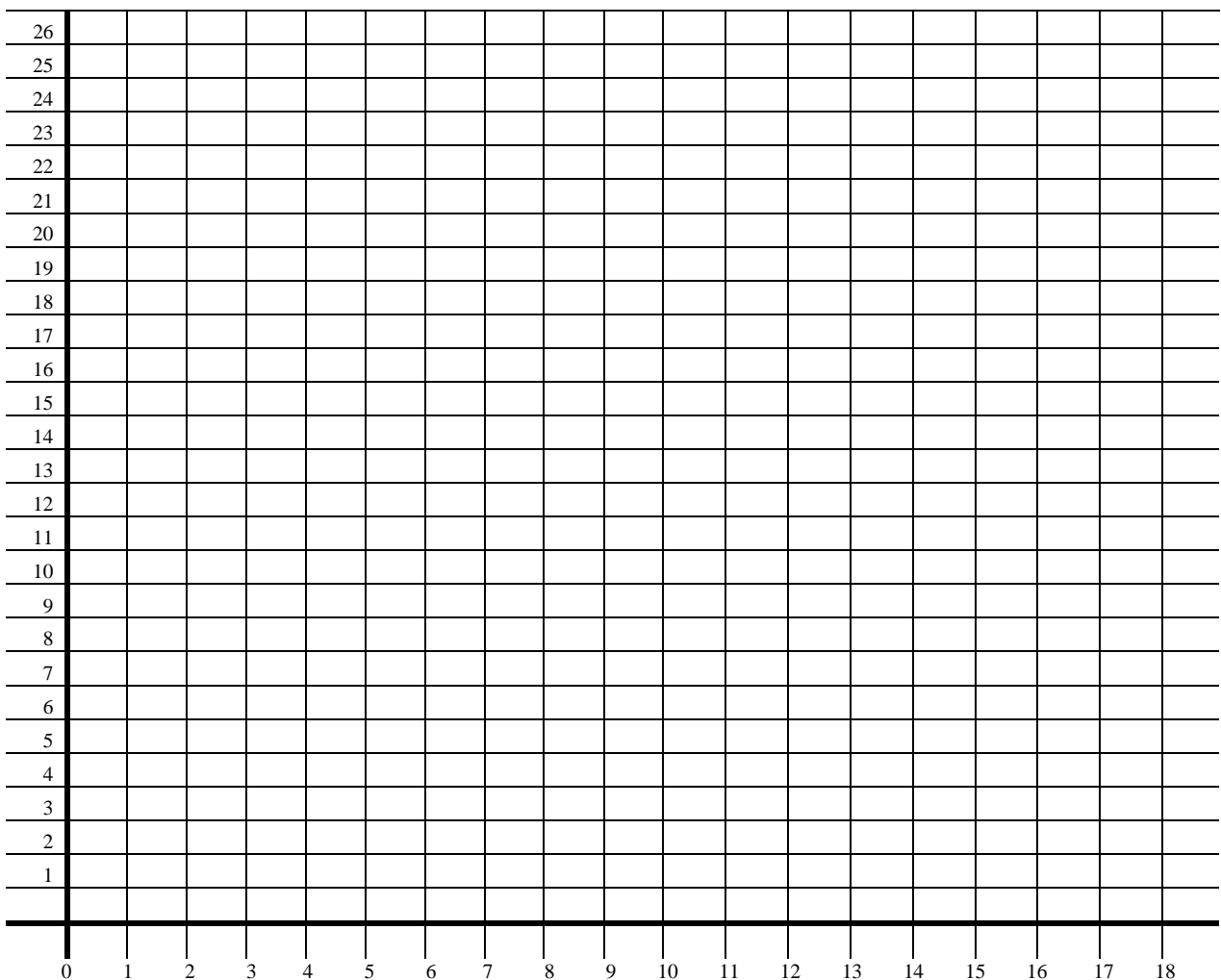
1. (6,20) (6,22) (5,22) (5,23) (4,23) (4,24) (3,24) (3,25) (2,25) (2,26) (0,26) (0,25) (1,25)  
(1,24) (2,24) (2,23) (3,23) (3,22) (4,22) (4,21) (5,21) (5,20) (6,20)
2. (13,20) (13,21) (14,21) (14,22) (15,22) (15,23) (16,23) (16,24) (17,24) (17,25) (18,25)  
(18,26) (16,26) (16,25) (15,25) (15,24) (14,24) (14,23) (13,23) (13,22) (12,22) (12,20) (13,20)

### Chin (line):

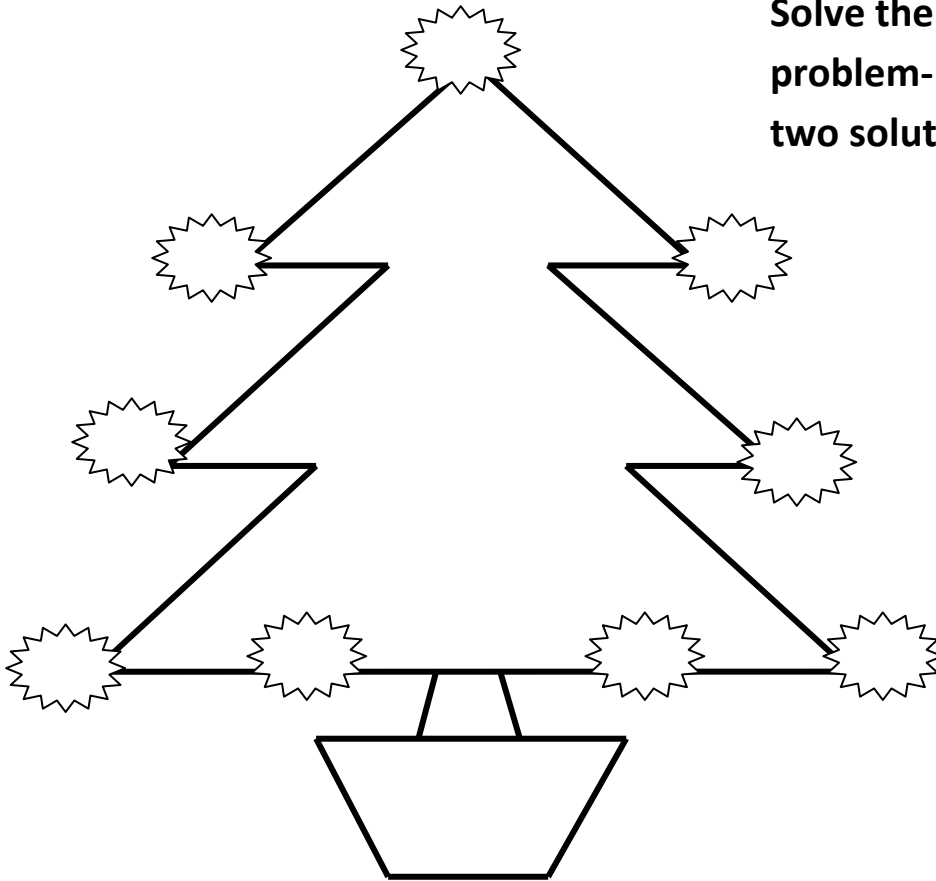
(5,9) (5,8) (6,8) (6,7) (7,7) (7,6) (11,6)          (11,7) (12,7) (12,8) (13,8) (13,9)

### Mouth: (line)

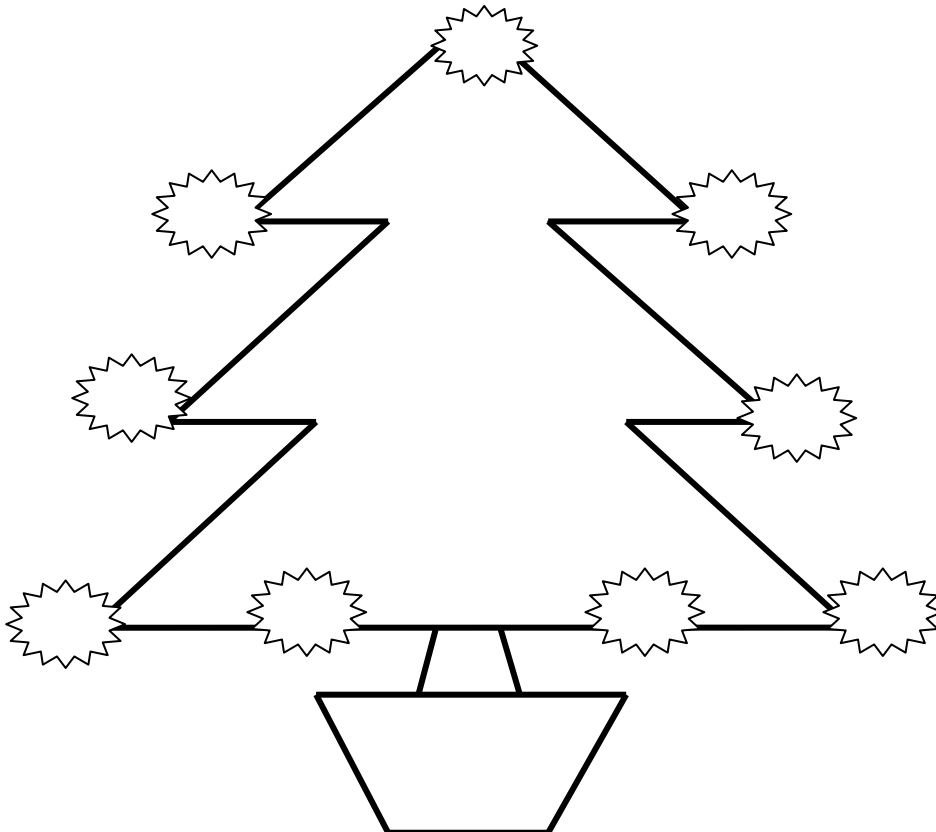
(7,9) (8,8) (10,8) (11,9)



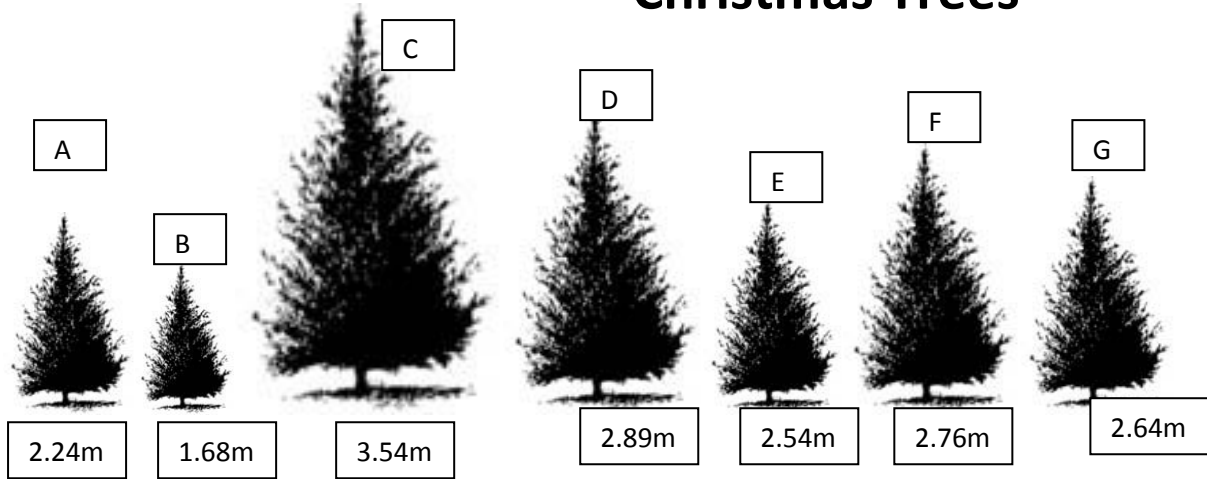
**Solve the Christmas tree problem- can you find two solutions?**



**Place the digits 1-9 in each of the star-shaped ornaments so that each of the three sides add up to the same total. You may use each digit only once.**



# Christmas Trees



1. What is the difference in height in the following pairs of trees?

A and B	<input type="text"/>	B and D	<input type="text"/>	C and G	<input type="text"/>
A and C	<input type="text"/>	B and E	<input type="text"/>	D and E	<input type="text"/>
A and D	<input type="text"/>	B and F	<input type="text"/>	D and F	<input type="text"/>
A and E	<input type="text"/>	B and G	<input type="text"/>	D and G	<input type="text"/>
A and F	<input type="text"/>	C and D	<input type="text"/>	E and F	<input type="text"/>
A and G	<input type="text"/>	C and E	<input type="text"/>	E and G	<input type="text"/>
B and C	<input type="text"/>	C and F	<input type="text"/>	F and G	<input type="text"/>

2. Calculate the total height of trees A,B, and C

3. Calculate the total height of the 3 tallest trees

4. Calculate the total height of the 3 smallest trees

5. Calculate the average(mean) height of the seven trees

The trees grow 3cms every month. Calculate the height of each tree after one more year

Tree	A	B	C	D	E	F	G
Now							
Growth in 1 year							
In 1 years time							

# CHOCOLATE CHRISTMAS DECORATIONS



All the decorations can be bought individually or in packs of twelve of any one type

1. What would be the price of a pack of twelve bells?
2. What would be the price of a pack of twelve Santas?
3. What would be the price of a pack of twelve snowmen?

Twelve packs are packed into one box.

4. What would be the price of a box of bells?
5. What would be the price of a box of Santas?
6. What would be the price of a box of snowmen?

One hundred boxes are packed in container.

7. What would be the price of a container of bells?
8. What would be the price of a container of Santas?
9. What would be the price of a container of Snowmen?

Supervalue orders 1 containers of bells, 5 containers of Santas and 2 containers of snowmen.

10. What is the value of all of these chocolate decorations?

Because Supervalve is buying so many decorations they are given a 25% discount.

11. How much is the discount?
12. How much do Supervalve have to pay?

## Toy Factory Workshop (1)

In the months leading up to Christmas, a toy factory was busy preparing for the Christmas orders.

The table below shows the number of toys made each month from June to November.

Use the information in the table to answer the questions below.

Toys	June	July	August	September	October	November
Boardgames	16	26	31	20	22	17
Bicycles	20	20	22	18	20	20
Footballs	28	18	20	25	21	14
Skateboards	25	23	27	21	22	20
Teddy Bears	10	17	15	19	12	11
<b>TOTALS</b>						

### Complete the following:

1. A total of \_\_\_\_\_ boardgames were made.
2. A total of \_\_\_\_\_ bicycles were made.
3. A total of \_\_\_\_\_ footballs were made.
4. A total of \_\_\_\_\_ skateboards were made.
5. A total of \_\_\_\_\_ teddy bears were made.
6. In June a total of \_\_\_\_\_ toys were made.
7. In June a total of \_\_\_\_\_ toys were made.
8. In June a total of \_\_\_\_\_ toys were made.
9. In June a total of \_\_\_\_\_ toys were made.
10. In June a total of \_\_\_\_\_ toys were made.
11. In June a total of \_\_\_\_\_ toys were made.
12. During the six months leading up to Christmas a total of \_\_\_\_\_ toys were made.



## Toy Factory Workshop (2)

Look at the table in worksheet 1 again

Calculate the average (mean) number of each toy made each month by adding the numbers made each month and dividing the total by the number of months. The first one is done for you.

Toys	Total made	Calculation needed	Mean
Boardgames	$16 + 26 + 31 + 20 + 22 + 17 = 132$	$132 \div 6$	22
Bicycles			
Footballs			
Skateboards			
Teddy Bears			

The factory has an order for 150 of each type of toy for Christmas. How many more of each type of toy must be made?

Boardgames

Bicycles

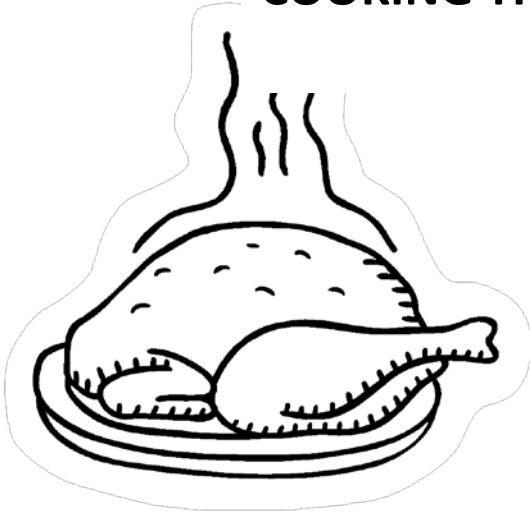
Footballs

Skateboards

Teddy bears

**Workspace**

## COOKING THE TURKEY AND HAM



The turkey in the picture weighed **5Kilos** before it was cooked.

The ham weighs **4Kilos** before it was cooked.

To cook the turkey properly it should be in the oven at 180 degrees for approximately **40mins per Kilo**.

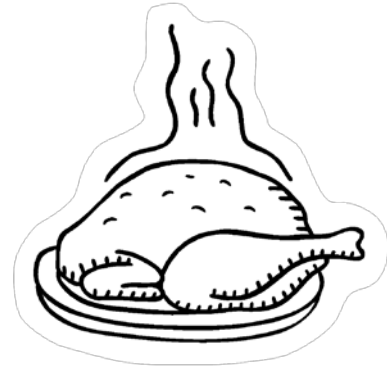
To cook the ham properly it should be cooked approximately **60mins per Kilo**

1. For how many minutes should this turkey be in the oven? \_\_\_\_\_
2. How many hours and minutes is this? \_\_\_\_\_
3. If the family dinner is at 1p.m. what time should the turkey be put in the oven? \_\_\_\_\_
4. If the family dinner is at 1p.m. what time should the ham be put on to cook? \_\_\_\_\_
5. If the family dinner is at 2.30p.m. what time should the turkey be put in the oven ? \_\_\_\_\_
6. If the family dinner is at 2.30p.m. what time should the ham be put on to cook? \_\_\_\_\_
7. If the family dinner is at 5.00p.m. what time should the turkey be put in the oven ? \_\_\_\_\_
8. If the family dinner is at 5.00p.m. what time should the ham be put on to cook? \_\_\_\_\_

The table below shows cooking times for different sized turkeys

Some of the table has been filled in for you.

Complete the rest of the table



Weight of turkey	Cooking time(minutes)	Cooking time(hours and minutes)	Time in the oven	Time out of the oven
3.0Kg			11.00am	
3.5Kg			11.30am	
4.0Kg			10.00am	
4.5Kg			10.30am	
5.0Kg			10.00am	
5.5Kg				1.30pm
6.0Kg				2.00pm
6.5Kg				2.30pm
7.0Kg			11.15am	
7.5Kg			9.45am	
8.0Kg				2.00pm
8.5Kg			11.00am	
9.0Kg				2.30pm
9.5Kg			10.00am	
10.0Kg				3.00pm

# Christmas Day – 25<sup>th</sup> DECEMBER

25

25

25

1. What is the square root of 25?

2. What is 25 squared?

3. Two square numbers add up to 25. What are they?

4. 25 has three factors. What are they?

5. Count in 25's

1x25 = 25

6. 997 –the digits add up to 25. List 4 other three digit numbers that add up to 25

7. Using only prime numbers, how many ways can you make 25?

25

25

25

# Doubles

Double each number below in the coded message and write down what letter it represents from the charts. Each letter has three possible code numbers.

<b>A</b>	<b>22, 100, 154</b>
<b>B</b>	<b>48, 166, 180</b>
<b>C</b>	<b>46, 56, 92</b>
<b>D</b>	<b>2, 160, 176</b>
<b>E</b>	<b>26, 62, 178</b>
<b>F</b>	<b>114, 98, 188</b>
<b>G</b>	<b>28, 68, 148</b>
<b>H</b>	<b>30, 64, 96</b>

<b>I</b>	<b>150, 58, 182</b>
<b>J</b>	<b>6, 86, 186</b>
<b>K</b>	<b>44, 88, 192</b>
<b>L</b>	<b>32, 66, 170</b>
<b>M</b>	<b>70, 90, 156</b>
<b>N</b>	<b>8, 84, 136</b>
<b>O</b>	<b>72, 102, 192</b>
<b>P</b>	<b>36, 82, 160</b>
<b>Q</b>	<b>14, 74, 124</b>

<b>R</b>	<b>42, 76, 112</b>
<b>S</b>	<b>16, 40, 194</b>
<b>T</b>	<b>152, 80, 110</b>
<b>U</b>	<b>18, 94, 108</b>
<b>V</b>	<b>20, 54, 60</b>
<b>W</b>	<b>24, 106, 140</b>
<b>X</b>	<b>34, 104, 138</b>
<b>Y</b>	<b>12, 38, 200</b>
<b>Z</b>	<b>10, 78, 50</b>

18	13	11	46	89	93	96	19	50	42	88
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
36										
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
P										
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____

48	77	41	80	29	68	31	20	97
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

76	51	100	36	54
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____