

# Fun Problem Solving Activities with Santa

KS2



Name.....

## Shop for Rudolf

### Personality

Kind  
Shy  
Hard working  
Energetic

### Hobbies

Cooking                  Art  
Reading                  Rugby



### Favourite Foods

Parsnips  
Pears  
Chocolate  
Porridge

### Things he doesn't like

Football  
Computer games  
Almonds  
Having cold ears

Choose 5 things from the list below that you think Rudolf would like to have for Christmas. Give reasons for your choices.

Earmuffs

A football

A rugby ball

A PlayStation

A box of chocolates

Almond fudge

A set of paint brushes

A cookery book

1.

---

2.

---

3.

---

4.

---

5.

---



## 5½ Chocolate Logs



*I need to make 5½ chocolate logs for my guests at Christmas. Please will you help me to work out the quantities of ingredients I will need?*

### For one cake

- 4 eggs
- 100 grams of sugar
- 120 grams of flour
- 2 spoons of cocoa powder

### For Santa's cake

### For the filling

- 50 grams of butter
- 140 grams of chocolate
- 200 grams of icing sugar
- 180 ml of double cream

### For Santa's filling



Oh dear, oh dear! I'm in such a tizzy. All of my reindeer's Christmas sacks have become muddled. Can you help me to work out who the sacks belong to and write the reindeer's names under their sacks?

|  |  |
|--|--|
| 1. Rudolf's sack is $10 \times 9$ .    | 6. Comet's sack is $212 \div 2$                  |
| 2. Dasher's sack is 51 less than 99.   | 7. Cupid's sack is double 317                    |
| 3. Dancer's sack is half of 352.       | 8. Donner's sack is $110 + 121 + 56$             |
| 4. Prancer's sack is $12 + 23 + 101$ . | 9. Blitzen's sack is Rudolf's sack divided by 15 |
| 5. Vixen's sack is $51 \times 5$       |  |







Donner, Blitzen and Dancer have been Christmas shopping. Donner spent exactly £2.20, Blitzen spent exactly £1.25 and Dancer spent exactly £1.19. Each reindeer bought two things. Can you work out what they bought?

Donner



£2.20

Blitzen



£1.25

Dancer



£1.19



carrots: £1.40



scarf: 57p



earmuffs: 80p



Christmas  
pudding: 26p



football: 68p



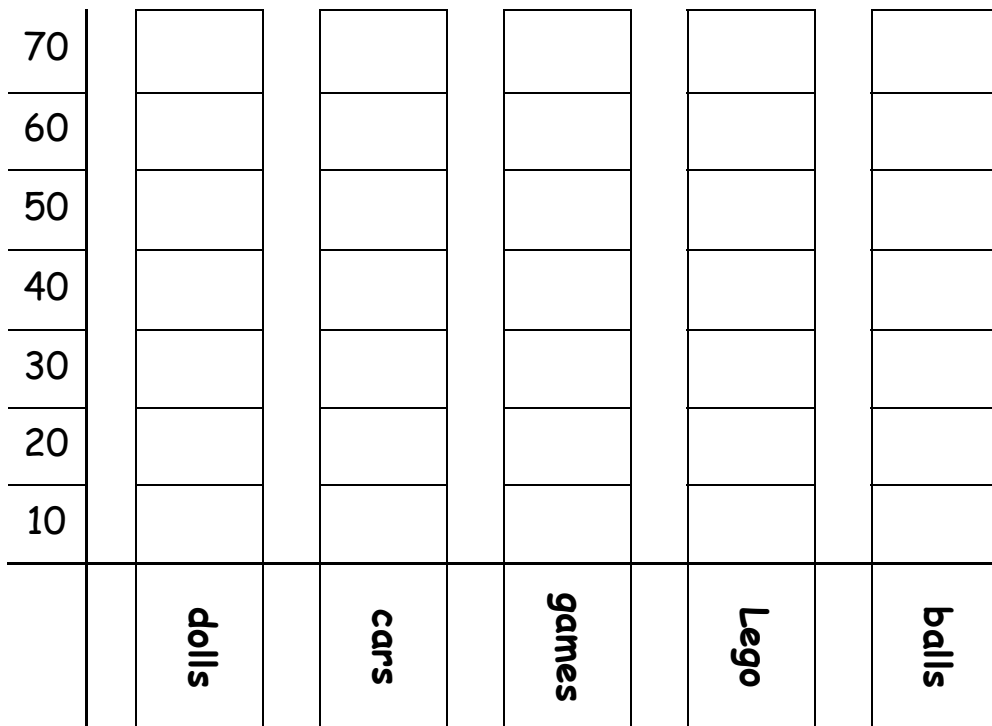
sleigh bells: 93p

| Donner | Blitzen | Dancer |
|--------|---------|--------|
|        |         |        |
|        |         |        |



My elves have made a tally of my toy stock. They now need to transfer the data to the block graph below and answer some of my questions. Can you help them?

|       |  |
|-------|--|
| dolls |  |
| cars  |  |
| games |  |
| Lego  |  |
| balls |  |



1. How many toys do I have altogether?

2. If I take the number of dolls I have away from the total number, how many toys will I be left with?



Read about some of my reindeer and answer the questions.

| Reindeer | Personality Traits   | Skills                              |
|----------|----------------------|-------------------------------------|
| Dasher   | Patient              | Organising                          |
| Dancer   | Courageous           | Map reading                         |
| Prancer  | Sympathetic          | A fully trained keep-fit instructor |
| Vixen    | Good sense of humour | Mechanic                            |

1. If it's cold, dark and windy on Christmas Eve, which reindeer would be good to lead the others?

---

2. If one of the reindeer couldn't understand Santa's instructions, who would be able to explain them again and again?

---

3. Which reindeer could keep the other's spirits up by telling jokes on their long journey?

---

4. If one of the reindeer wanted to improve their fitness, who could help them?

---

5. If Santa's sleigh needed some repairs, who would be able to help?

---

6. Which reindeer would be good at planning Santa's route?

---





Can you help Donner to sort out the pronouns below?

Write the pronouns in the correct stockings.



I

you

us

it

him

me

them

yours

they

we

her

their

1st person

2nd person

3rd person



All of the sentences below include a subordinate clause. Unfortunately, the subordinate clauses have become muddled and are now in the wrong sentences. Please help me by rewriting each sentence with the correct subordinate clause.



I cannot wear these boots when I am watching TV.



I like to eat popcorn because they are too tight.



Rudolf fell asleep when he saw the clown.



The elf laughed because he was very tired.



*Rudolf is really struggling with his spelling.  
Can you help him by ticking the correct spellings for the words below.*



suprize

occasion

surprise

occcation

surprize

occaision

sentury

favorite

centuary

favourite

century

favourate

imagine

appear

immagine

appeer

imagin

appere



Comet has just been to the shops to buy some mince pies. Unfortunately, Comet is not very good at working out how much "change" he should have been given. Can you help?



Comet bought the items below. He paid using a £10 note.



£1.10



£4.35



£2.22



75p



75p

The shopkeeper gave Comet 84p in change.

Please can you check that Comet was given the correct amount of change? Show your working out in the space below.

Comet should have been given \_\_\_\_\_ in change.

Comet was/was not given the correct change.



Here's a Christmas word search for you to enjoy. All the words included are things you might see in the North Pole



M P S C B S Z L A N S W P B M W R I  
O W N N E K J E R E Z N S K G O E P  
O P O T L X M M C R W A N Z C L I U  
S O W O U A V M T M R R O S Y V N Q  
E L Y R G O B I I I F W W E W E D A  
O A O C A A C N C N V H G A A R E H  
Q R W A W Z K G W E D A O L L I E A  
G B L X H B F B O X S L O M R N R X  
J E N I A R N L L A V M S U U E R L  
A A Q Y L T Z O F N D M E D S X J R  
A R T G E A A R C T I C F O X Q O U  
W S Q U I R R E L T V F G U E T U V

|              |             |
|--------------|-------------|
| REINDEER     | SQUIRREL    |
| SEAL         | ARCTIC WOLF |
| LEMMING      | WOLVERINE   |
| SNOW GOOSE   | WALRUS      |
| POLAR BEAR   | MOOSE       |
| ARCTIC FOX   | SNOWY OWL   |
| ORCA         | ERMINE      |
| BELUGA WHALE | NARWHAL     |



# Fun Problem Solving Activities with Santa

KS2

Answers

1. A rugby ball - because rugby is one of his hobbies.

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2. A box of chocolates - because chocolate is one of his favourite foods.

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3. Earmuffs - because he doesn't like having cold ears.

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4. A cookery book - because he likes to cook.

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5. A set of paint brushes - because art is one of his hobbies.

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|     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     |     |     |     |     | 18  | 20  |     |     |     |
|     |     |     |     |     |     |     |     | 38  | 40  |     |     |     |
|     |     |     |     |     |     |     | 54  | 56  | 58  | 60  |     |     |
|     |     |     |     |     |     |     | 74  | 76  | 78  | 80  |     |     |
|     |     |     |     |     |     | 90  | 92  | 94  | 96  | 98  | 100 |     |
|     |     |     |     |     |     | 110 | 112 | 114 | 116 | 118 | 120 |     |
|     |     |     |     |     | 126 | 128 | 130 | 132 | 134 | 136 | 138 | 140 |
|     |     |     |     |     | 146 | 148 | 150 | 152 | 154 | 156 | 158 | 160 |
| 162 | 164 | 166 | 168 | 170 | 172 | 174 | 176 | 178 | 180 |     |     |     |
| 182 | 184 | 186 | 188 | 190 | 192 | 194 | 196 | 198 | 200 |     |     |     |

**For Santa's cake**

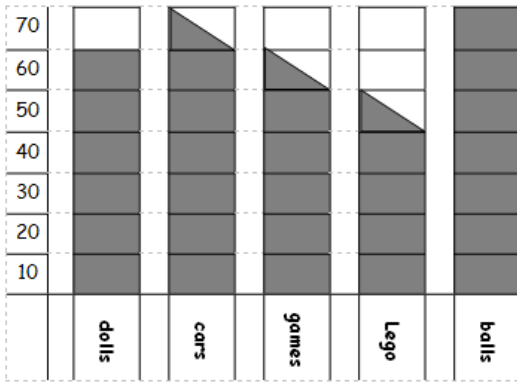
- 22 eggs
- 550 grams of sugar
- 660 grams of flour
- 11 spoons of cocoa powder

**For Santa's filling**

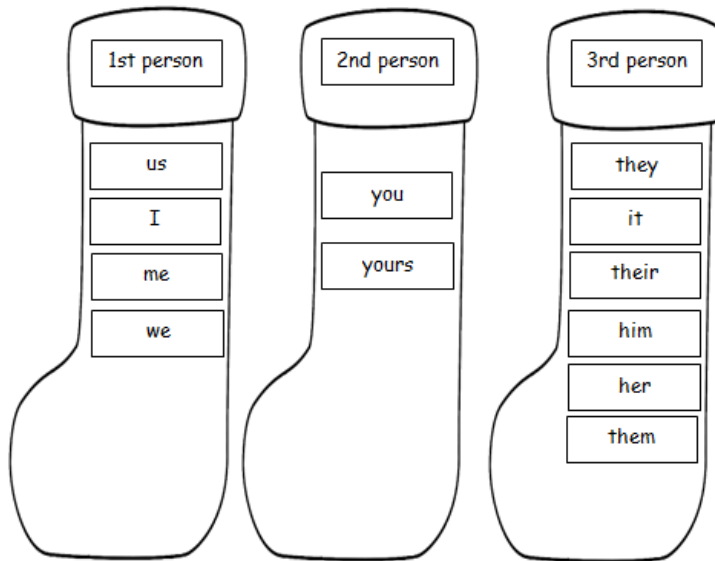
- 275 grams of butter
- 770 grams of chocolate
- 1.1 kg of icing sugar
- 990 ml of double cream

|   |   |  |
|---|---|--|
| <br>106<br>Comet | <br>136<br>Prancer | <br>287<br>Donner |
| <br>90<br>Rudolf | <br>255<br>Vixen   | <br>6<br>Donner   |
| <br>634<br>Cupid | <br>48<br>Dasher   | <br>176<br>Dancer |

|                     |                   |                                   |
|---------------------|-------------------|-----------------------------------|
| Donner              | Blitzen           | Dancer                            |
| Carrots<br>Earmuffs | Scarf<br>Football | Sleigh Bells<br>Christmas Pudding |



- How many toys do I have altogether?
- If I take the number of dolls I have away from the total number, how many toys will I be left with?



I cannot wear these boots because they are too tight.

I like to eat popcorn when I am watching TV.

Rudolf fell asleep because he was very tired.

The elf laughed when he saw the clown.

p

p

|  |   |
|--|---|
| 1. If it's cold, dark and windy on Christmas Eve, which reindeer would be good to lead the others?                     | 4. If one of the reindeer wanted to improve their fitness, who could help them? |
| <i>Dancer</i>  | <i>Prancer</i>  |
| 2. If one of the reindeer couldn't understand Santa's instructions, who would be able to explain them again and again? | 5. If Santa's sleigh needed some repairs, who would be able to help?            |
| <i>Dasher</i>  | <i>Vixen</i>  |
| 3. Which reindeer could keep the other's spirits up by telling jokes on their long journey?                            | 6. Which reindeer would be good at planning Santa's route?                      |
| <i>Vixen</i>   | <i>Dancer</i>   |

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|          |   |           |   |
|----------|---|-----------|---|
| surprise | ✓ | occasion  | ✓ |
| century  | ✓ | favourite | ✓ |
| imagine  | ✓ | appear    | ✓ |

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Show your working out in the space below.

*A variety of possibilities.*

Comet should have been given **83p** in change.

Comet ~~was~~ was not given the correct change.

Page 13

M . S . B . . L A . . . . . W R .  
 O . N . E . . E R E . N S . . O E .  
 O P O . L . . M C R . A N . . L I .  
 S O W O U . . M T M . R O S . V N .  
 E L Y R G . . I I I . W W E W E D .  
 . A O C A . . N C N . H G A A R E .  
 . R W A W . . G W E . A O L L I E .  
 . B L . H . . . O . . L O . R N R .  
 . E . . A . . . L . . . S . U E . .  
 . A . . L . . . F . . . E . S . . .  
 . R . . E . A R C T I C F O X . . .  
 . S Q U I R R E L . . . . . . . .