

CHRISTMATHS 1

name _____

Father Christmas is giving his 10 reindeer socks for Christmas.



How many **pairs** does he need to buy? _____

How many socks **altogether**? _____

Each pair cost £1.50 how much did he spend? £ _____

How many does Father Christmas need to get to give

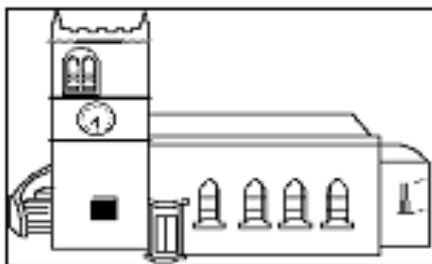
9 policemen 2 pairs of handcuffs each? _____ pairs

13 fairies 4 magic wands each? _____ wands

14 dads a pair of Dennis the Menace socks _____ socks

150 schools two Christmas trees each _____ trees

both West Bromwich Albion fans a scarf each _____ scarves



The church choir share one book between 3. How many books are needed for

18 boys _____

30 men _____

24 girls _____

36 women _____

Altogether _____ books will be needed.

How many legs are there on 7 reindeer _____ 4 Santas _____

6 flies _____ 3 Christmas dinners _____ 3 spiders _____

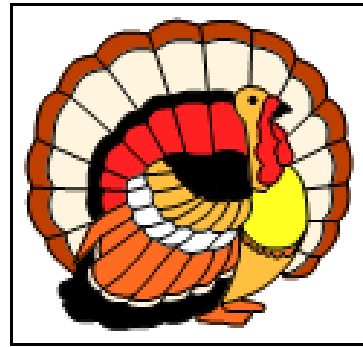
How many wheels are there on 5 wheelbarrows _____ 7 buses _____

10 bikes _____ 3 Christmas dinners _____ 2 sleighs _____

CHRISTMATHS 2

name _____

Bernard the turkey has decided to run away to the *Animals-Are-Us* Animal Sanctuary in Wales. He will have to travel in disguise and change buses and coaches.



1. Choose a disguise for him and fill out the bill. Be careful, he only has £20 to spend on clothes.

The Fancy Dress & Disguise Shop

..... £

..... £

..... £

..... £

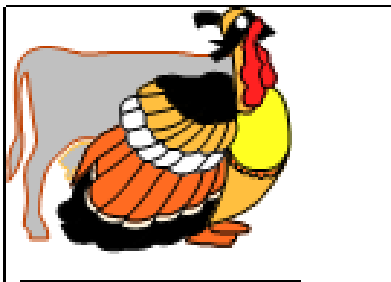
..... £

..... £

Total Cost £

Price List

dark glasses	£2-95	moustache	£0-95
false beard	£4-49	false eyelashes ...	£0-49
blonde wig.....	£6-15	fake fur coat	£6-15
traffic warden's uniform...£10-86		stocking mask....	£1-59
fireman's helmet£2-50		nun's costume .£12-50	
		cowboy hat	£2-76



One of Bernard's less successful disguises.

Travel Choices

	Choice1	Choice2	Choice3	Choice4
Make escape on bus	06:30	07:35	09:53	11:20
Arrive in Birmingham	08:55	10:25	12:18	13:55
Leave Birmingham	09:40	11:40	12:40	14:10
Arrive in Shrewsbury	11:15	13:28	14:08	15:46
Leave Shrewsbury	12:20	13:50	15:20	15:50
Arrive at Sanctuary	13:55	15:25	16:55	17:42

2. How long would Bernard have to stand around waiting at bus and coach stations?

Complete this table.

Waiting time

	Choice1	Choice2	Choice3	Choice4
In Birmingham				
In Shrewsbury				
Total time waiting				

3. How long will he spend travelling for each choice?

Complete this table.

Think about time and the danger of being recognised.

4. Which of the choices would you recommend?

Travelling time

	Choice1	Choice2	Choice3	Choice4
To Birmingham				
From Birmingham to Shrewsbury				
From Shrewsbury to the Sanctuary				
Total time travelling				

5. Why ?

CHRISTMAS 3

name _____

The Three Wise Men (the Magi) and their servants stopped off on their journey at a new Fast Food Restaurant. Use the menu to work out their bill.

3 Donkeyburgers	_____
7 camelburgers	_____
3 portions of sheep's eyes	_____
Thick shakes fig flavour	_____
2 date flavour	_____
7 palm flavour	_____
Total bill	£ _____

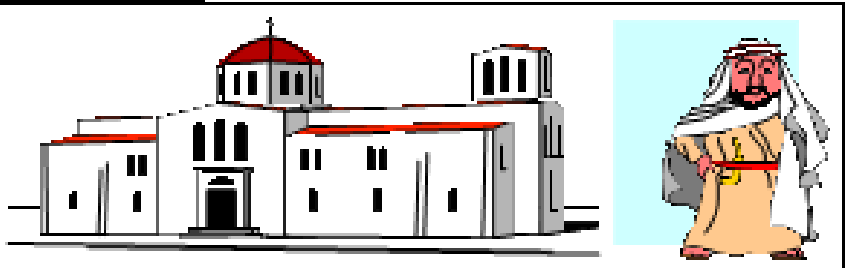
McHerod's Fast Foods

Donkey burger	£1.95
Camel burger	£1.25
sheep's eyes (per portion)	£1.29
thick shakes	fig £2.45
	date £3.85
other flavours	£2.12

When they reached Bethlehem they stayed at the

Desert Motel.

Use the price list to work out these bills.



Desert Motel

Price List (per night)

Hotel	Single room with T.V. and shower.....£55
	Servants sharing floor in corridor £2.50
Stables	camels £2.50
	sheep..... £1.50
Shepherds £1.25
<small>Special Christmas Offer: With every 50 paid-for sheep ONE shepherd stays for FREE!</small>	
	carpenter with wife sharing..... £1.90
	babies under 3 years old FREE

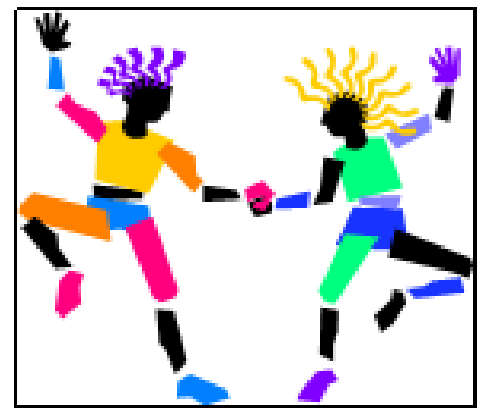
<p>3 Wise Men 7 servants 3 camels Staying for 2 nights</p> <p style="text-align: right;">£ </p>

<p>Mary, Joseph and baby Jesus Staying for 2 weeks</p> <p style="text-align: right;">£ </p>

<p>8 shepherds 100 sheep staying for 1 night</p> <p style="text-align: right;">£ </p>

CHRISTMATHS 4

name _____



You have been given the job of organising a disco for 80 children.

You have up to £120 to spend, including hiring a mobile disco.

Fill in the order form and see how close you can get to £120 without going over budget!

Make sure you order enough food and drink for everyone, and remember that "branded" items are usually more expensive.

You can use the back of the sheet for rough working out.

	number	price	cost
Hire professional Disco	1	£80.00	£80.00
pack of 24 cans of @Coca Cola		£7.95	
pack of 24 cans of @Tango		£7.20	
pack of 24 cans of @ 7-Up		£7.95	
pack of 24 cans of supermarket brand cola		£4.85	
20 plastic cartons of squash		£2.25	
Walkers Crisps box of 48 packets		£9.49	
Asda's own brand crisps bag of 18 packets		£2.35	
plain biscuits packet of 24		£0.45	
chocolate biscuits packet of 6		£1.09	

total price _____

Change out of £120 budget _____

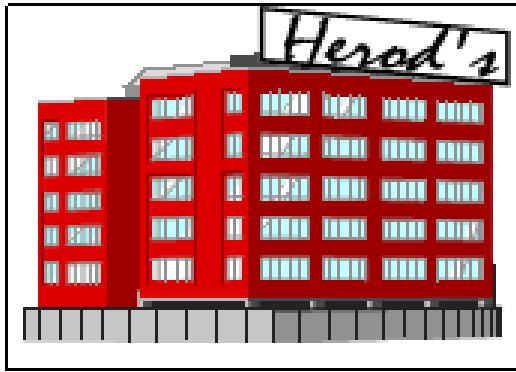
Look at what you have bought.

If everyone has an equal share, what will you have left over? Make a list below.



CHRISTMATHS 6

name: _____



The Wise Men do their Christmas shopping at Herod's
It takes half a minute to travel up to the 6th floor in the lift.

Their servants take 15 seconds to walk up each
flight of stairs.

1. How long does it take the servants to reach them?
2. How long do the 3 Wise Men have to wait for them?

Each of the Wise Men (the Magii) has £1000 to spend.

3. Decide how each of them might buy.

Don't forget to say who each present is for and work
out each bill.

4. Work out how much change they get (if any).

Balthazar's Shopping List

Gift Department

Gold **£10 per gram**

(minimum purchase 50 grams)

Frankincense **£32 per gram**

(minimum purchase 25 grams)

Myrrh **£28 per gram**

(minimum purchase 20 grams)

Camel Shampoo set **£3.00**

Mobile phone **£9.99**

box of dates **£2.50**

Caspar's Shopping List

Melchior's Shopping List

CHRISTMATHS 6

name _____

Santa makes his elves work very hard. They each have to make 96 toys a day.



In one hour
 Colin makes 15 teddies,
 Kevin makes 10 dolls,
 Malcolm makes 6 bikes,
 Cyril makes 12 toy cars,
 Eric makes 4 dolls' houses.

Complete this table.

	time needed to make 1 toy	hours worked each day
Colin		
Kevin		
Malcolm		
Cyril		
Eric		

Flying needs a lot of fuel. To fly 200 miles a reindeer needs $7\frac{1}{2}$ carrots and $\frac{1}{2}$ a bucket of water. Work out how much fuel is required for a team of seven reindeer to fly these distances.

	carrots	buckets of water
1200 miles		
2000 miles		
4700 miles		
100 miles		

The temperature in Santa's home is 4°C . What will it be if it :-

- | | | |
|---------------------------|---------------------------|---------------------------|
| rises by 6 degrees _____ | rises by 18 degrees _____ | rises by 22 degrees _____ |
| falls by 2 degrees _____ | falls by 4 degrees _____ | rises by 9 degrees _____ |
| falls by 16 degrees _____ | falls by 7 degrees _____ | falls by 27 degrees _____ |
| rises by 11 degrees _____ | falls by 18 degrees _____ | rises by 39 degrees _____ |



Santa's house is built of 1800 litres of snow.
 Rudolf has turned up the central heating and has run away.
 It is melting at 5 litres per minute.
 How long will it take for the whole igloo to melt?
 Every $2\frac{1}{2}$ litres of snow melts down to just 1 litre of water.
 How many litres of water will the igloo melt down to ?

Santa has suddenly started selling reindeer meat.

Find the cost of:-

- 12 reindeer steaks at £3.45 each _____
- 8 Rudolf burgers at £1.86 for 2 _____
- 0.75kg of sausage at £3.40 /kg _____
- 700g reindeer chops at £5.60 /kg _____
- 5 Rudolf pies at £2.25 each _____
- Total price for all this meat _____



Father Christmas has parked his Land Rover on top of a neighbour's BMW. How long will it take Santa to pay the £9 800 repair bill at

- £10 a week? _____
- £90 a month? _____
- £30 a week? _____