

Name:

Teacher
Assessment



Section A % Problem Solving - Non-Calculator Grade C

1. There are 150 kangaroos at a wildlife park.

(a) There are 66 female kangaroos.
What percentage is female?

.....
.....
.....

Answer%

(2)

(b) The number of kangaroos increases by 20% each year.
Calculate the number of kangaroos in the wildlife park after 2 years.

.....
.....
.....

Answer.....

(3)

(Total 5 marks)

2. Amir works in a sports shop.
He can have a discount of 40% on anything he buys for himself.

How much will Amir pay for a pair of trainers priced at £65?

.....
.....
.....

Answer £

(Total 3 marks)

3. The price of a computer is £840.
In a sale the price is reduced by 15%.

What is the sale price?

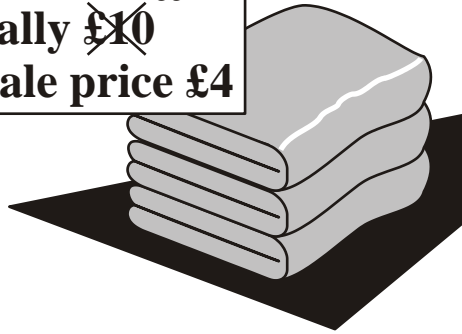
.....
.....

Answer £

(Total 3 marks)

4. Jack and Jill want to buy some towels.
A store displays the following signs.

January Sales
All towels 60% off
Normally ~~£10~~
January sale price £4



Today Only
EXTRA
25% off the
January sale price

That is 85%
off the
original price

Jack



No, it is only 70%
off the
original price

Jill



Who is correct, Jack or Jill?
Explain your answer fully.

.....

.....

.....

.....

.....

.....

(Total 2 marks)

5. Sue's dog weighed 60 pounds.
The vet said the dog must lose 15% of its weight.
Sue's dog now weighs 53 pounds.

Does Sue's dog need to lose more weight?
You **must** show all your working.

.....
.....
.....
.....
.....

(Total 3 marks)

6. 500 people voted in an election.
The table shows the four candidates and the votes received by two of them.

Allgood	Betterdon	Carewell	Didright
155	105		

- (a) What percentage of the votes did Allgood receive?

.....
.....
.....
.....

Answer%

(2)

- (b) Carewell received twice as many votes as Didright.

How many votes did Carewell receive?

.....
.....
.....

Answer

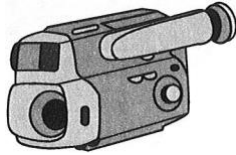
(3)

(Total 5 marks)

7. A camera is advertised in two shops.
VAT is 17.5%

Dicksons Cameras

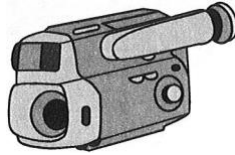
Sonny DC-23



£330 plus VAT

Carry's Electrical

Sonny DC-23



£385 including VAT

In which shop is the camera cheaper and by how much?

.....

.....

.....

.....

.....

.....

Answer

(Total 4 marks)

8. Alison wants to buy an MP3 CD player and finds the following advertisement.

Musical Moments

MP3 CD player

40% off

recommended price of £320



Calculate the cost of the MP3 CD player at Musical Moments.

.....

.....

.....

.....

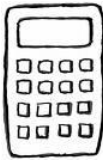
.....

Answer £

(Total 3 marks)

Success:

Target:



Section B % Problem Solving - Calculator Grade D / C

1. Mary buys a new kitchen for £5390.

(a) Mary pays a 10% deposit. How much is the deposit?

.....
.....
.....

Answer £

(1)

(b) After paying the deposit, Mary pays the rest of the cost in 12 equal instalments.

How much is each instalment?

.....
.....
.....

Answer £

(3)

(Total 4 marks)

2. Sue's dog weighed 60 pounds.
The vet said the dog must lose 15% of its weight.
Sue's dog now weighs 53 pounds.

Does Sue's dog need to lose more weight?
You **must** show all your working.

.....
.....
.....
.....
.....

(Total 3 marks)

3. People in the country of Brownland have to pay income tax on the money they earn as shown.

Earnings (£)	Tax to pay
0 – 5000	NIL
Over 5000	20 % on all earnings over £5000

Examples	
Earnings (£)	Tax to pay
4000	NIL
13 000	20 % of £8000

Lynn earns £28 000. Work out the amount of tax that Lynn pays.

.....

.....

.....

.....

Answer £

(Total 3 marks)

4. Abby sees the same model of digital camera for sale in two different shops.

Digicam

Our Price

15% off Normal Price

of £288

Pictures4u

Our Price

$\frac{1}{6}$ off Normal Price

of £288

Calculate the final cost of the camera from

(a) Digicam,

.....

.....

Answer £

(3)

(b) Pictures4u.

.....

.....

.....

Answer £

(3)(Total 6 marks)

5. Karl sees this advertisement in a shop window.

<p style="text-align: center;">HOCKEY KIT</p> <p style="text-align: center;">Shirt £16.50</p> <p style="text-align: center;">Pair of Shorts £8.50</p> <p style="text-align: center;">SPECIAL OFFER!</p> <p style="text-align: center;">Buy both items and receive a 10% reduction in price</p>

Karl buys both items. How much does he pay?

.....

.....

.....

.....

.....

Answer £

(Total 3 marks)

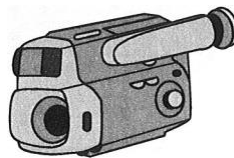
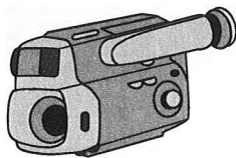
6. A camera is advertised in two shops. VAT is 17.5%

Dicksons Cameras

Carry's Electrical

Sonny DC-23

Sonny DC-23



£330 plus VAT

£385 including VAT

In which shop is the camera cheaper and by how much?

.....

.....

.....

.....

.....

.....

Answer

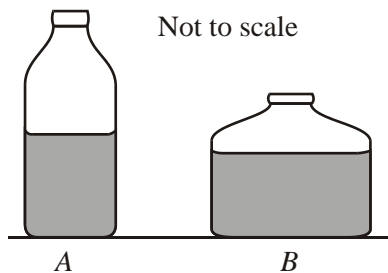
(Total 4 marks)

7. A recipe for 12 small cakes uses 240 g of flour.
A bag contains 3 kg of flour.
What percentage of the flour in the bag is used to make 30 small cakes?

.....
.....
.....
.....
.....
.....

Answer%
(Total 4 marks)

8. Two bottles are on a shelf.
The 3 litre bottle, *A*, is 55% full of water.
The 2.5 litre bottle, *B*, is three-quarters full of water.
Which bottle contains more water?
You **must** show all your working.



.....
.....
.....
.....
.....

Answer
(Total 4 marks)

9. A shop has a special offer.

SPECIAL OFFER
This Week Only

**BUY THREE ITEMS
AND
GET THE CHEAPEST ONE FREE**

(a) Ian buys the following items:

A bottle of shampoo priced at	£1.75
A bar of soap priced at	£1.15
An aftershave spray priced at	£2.85

What is Ian's percentage saving using this special offer?

.....

.....

.....

.....

Answer %

(3)

(b) The greatest possible percentage saving is when the three items are all the same price.

Calculate this percentage saving.

.....

.....

.....

Answer %

(2)

(Total 5 marks)

Success:

Target: