

Q1.

A gym has 275 members.

40% are bronze members.

28% are silver members.

The rest are gold members.

Work out the number of gold members.

.....

.....

.....

.....

.....

Answer

(Total 3 marks)

Q2.

120 men and 80 women were asked if they drive to work.

Altogether $\frac{1}{4}$ of the people said yes.

$\frac{1}{3}$ of the men said yes.

What fraction of the women said yes?

.....

.....

.....

.....

.....

.....

Answer

(Total 4 marks)

Q3.



Bag A



Bag B

Bag A contains £7.20 in 20p coins.

Bag B contains only 5p coins.

The number of coins in bag B is three-quarters of the number of coins in bag A.

How much money is in bag B?

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

Answer £

(Total 4 marks)

Q4.

Here are two offers for batteries.

OFFER A

Pack of 4

£2.52

$\frac{1}{3}$ off

OFFER B

Pack of 5

£2.75

Pay for 3 packs get 1 free

Zak wants to buy 40 batteries.

Which is the cheaper offer?
You **must** show your working.

.....

.....

.....

.....

.....

.....

.....

.....

.....

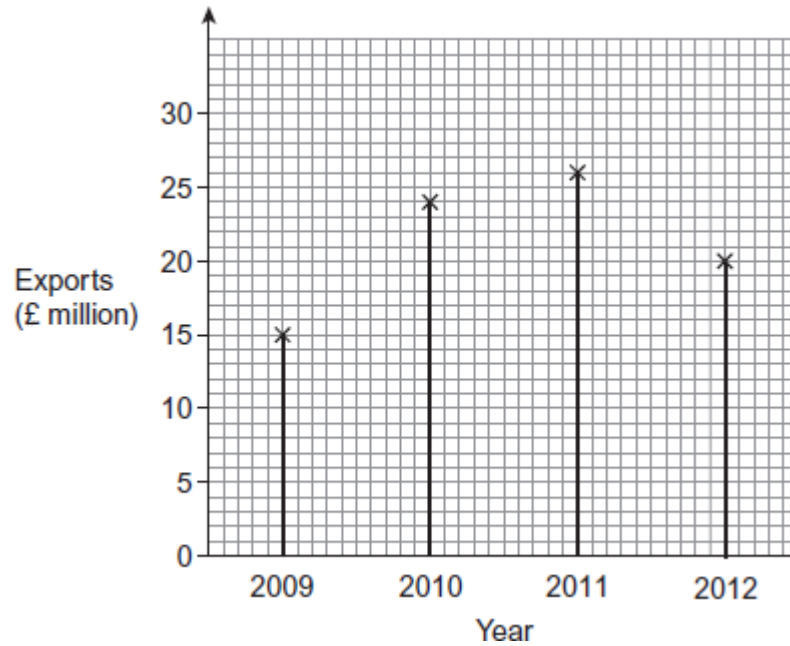
.....

Answer

(Total 5 marks)

Q5.The diagram shows information about the exports of a company.

Exports



- (a) Work out the **increase** in the exports from 2009 to 2010.

.....

Answer £.....million

(2)

- (b) Write the value of the exports in 2011 to 1 significant figure.

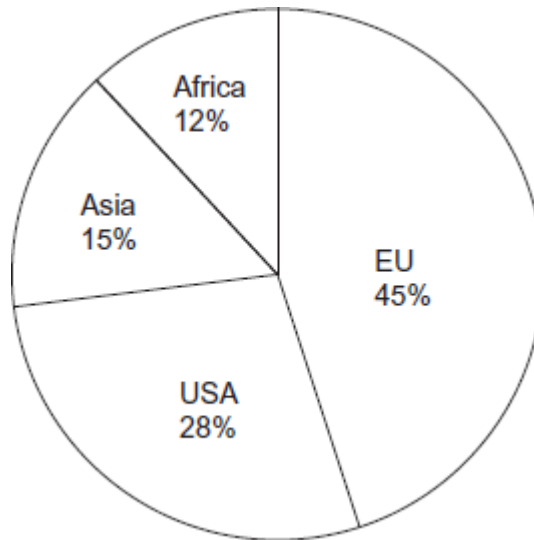
.....

Answer £.....million

(1)

- (c) The pie chart shows information about the exports of the company in 2012.

Exports in 2012



Use **both** diagrams to work out the value of the exports to the **USA** in 2012.

.....

.....

.....

Answer £.....million

(3)
(Total 6 marks)

Q6.(a) Lucy thinks people prefer dogs to cats.

She asks dog owners,

“Do you prefer dogs or cats?”

Is the data likely to be biased?

Give a reason for your answer.

.....

.....

(1)

(b) Sam asks 30 people,

“Do you prefer dogs or cats?”

One-fifth of the 30 people have no preference.

Twice as many choose cats as choose dogs.

Complete the table.

	Frequency
Dogs	
Cats	
No preference	
	Total = 30

(3)
(Total 4 marks)

Q7. Work out $\frac{3}{5}$ of 900

.....

Answer

(Total 2 marks)

Q8. Megan took two tests.
Here are her results.

Geography test $\frac{13}{20}$

History test $\frac{16}{25}$

In which test did Megan get the higher percentage mark?
You **must** show your working.

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

.....
Answer

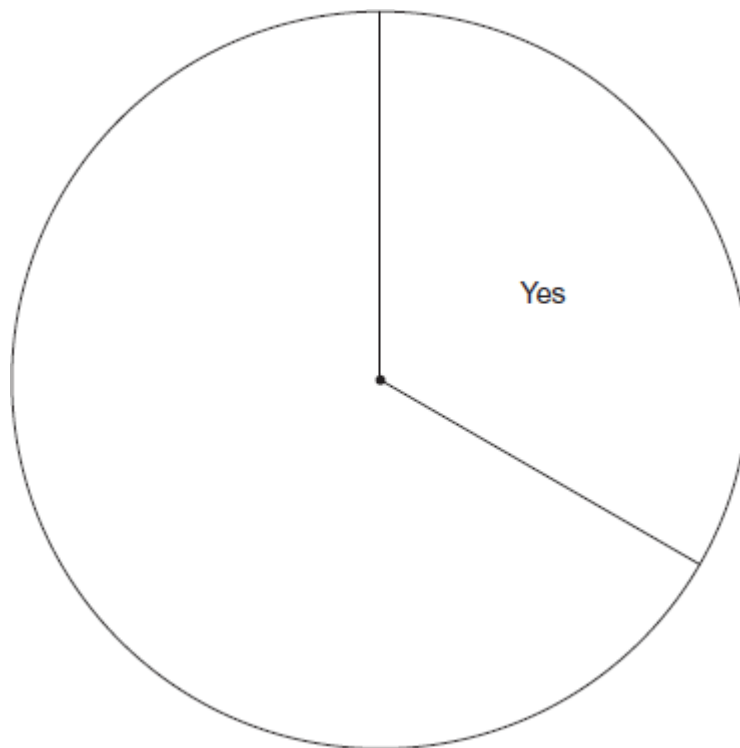
(Total 2 marks)

Q9.A reporter asked people if they agreed with a government policy.

1/4 said Yes
1/3 said No

The rest said Don't know

Survey results



Complete the pie chart.

.....
.....

.....

(Total 3 marks)

Q10. Here is some information about tourism in 2012

Country visited	Number of tourists (millions)	Total spent by tourists (\$ millions)
France	83.0	53 600
USA	67.0	126 200
Spain	57.7	55 900

(a) How many **more** tourists visited France than Spain?

.....

Answer million

(2)

(b) 21% of the total spent by tourists in the USA was by Canadians.

Work out the amount spent by Canadian tourists in the USA.

.....

Answer \$ million

(2)

(c) In the UK the total spent by tourists was \$36 600 million.
 There were 29.3 million tourists.

Work out the average spent per tourist in the UK.
Give your answer to the nearest \$10

.....

Answer \$

(3)
(Total 7 marks)

Q11.(a) Write 30% as a fraction.

.....

Answer

(1)

(b) Write 80% as a decimal.

.....

Answer

(1)

(c) Circle the **two** values that are equivalent to $\frac{2}{3}$

$\frac{66}{100}$ $0.\dot{6}$ 60% $\frac{66}{99}$ 0.6

(2)
(Total 4 marks)

Q12. Gas bills are calculated from the number of kilowatt hours used.

- (a) The first 2700 kilowatt hours of gas cost 8p each.
Extra kilowatt hours of gas cost 5p each.

A family uses 5850 kilowatt hours of gas.

Work out their gas bill.

.....

.....

.....

.....

.....

Answer £

(4)

- (b) Here is a formula for working out the profit a gas company makes from each bill.

$$\text{profit} = \text{bill} \times 0.07$$

What percentage of each gas bill is profit?

Answer %

(1)

(Total 5 marks)

Q13. Kitchen rolls are sold in a pack of 2 or a pack of 6



Which pack is the better value for money?
You **must** show your working.

.....

.....

.....

.....

.....

.....

Answer

(Total 3 marks)