

Question 1

There are 24 pupils in a class. They decided to help the local park by planting a total of 24 plants, a mixture of birch trees and roses. Each girl planted three roses, and every three boys planted one birch tree between them. How many more boys than girls are there in the class?

- A 3
- B 6
- C 8
- D 12
- E 18

Question 2

Recently, packets of Amblers crisps have had 'money-off' coupons inside them. Some coupons are worth 9p, some are worth 14p and some are worth 20p. George has been collecting these coupons. He has more 14p coupons than 9p coupons, and more 9p coupons than 20p coupons. The total value of all of his coupons is exactly £1.50. How many coupons has George collected?

- A 9
- B 10
- C 11
- D 12
- E 13

Question 3

Children spend far too long in schools analysing poems when they should simply be learning to enjoy them. Thankfully, a new approach requires that, instead of focusing on analysing technical aspects of writing such as the writer's use of imagery or alliteration, children will be required simply to learn poems so that they can recite them by heart. This makes good sense. What is the use of learning how to analyse literature if you have no appreciation of its actual value? If they then become interested in it enough to study it at A level or at university, that can be when they learn to analyse in detail the author's craft.

Which one of the following is an underlying assumption of the above argument?

- A Analysing the writer's craft could enhance the appreciation of the poem.
- B Children are not currently required to learn poems off by heart.
- C English will continue to be a subject available for study at A level or university.
- D For something to be classed as poetry it must include either alliteration or imagery.
- E Learning a poem off by heart will enable you to appreciate it more.

Question 4

A car journey begins with a 15 km drive at an average speed of 60 km /hour, then 5 hours on the motorway, including two 15-minute rest stops, travelling at an average driving speed of 80 km / hour, and finally a 20 km drive at an average speed of 40 km /hour from the motorway to the destination. If the destination is reached at 12:00 midday, at what time did the journey begin?

- A 5:18 am
- B 5:25 am
- C 5:45 am
- D 6:15 am
- E 6:45 am

Question 5

A café owner makes 50 mini pizzas and 50 flapjacks for sale during the day. The pizzas are sold for \$2.00 each and the flapjacks are sold for \$1.00 each. However, by the end of lunchtime there are 10 mini pizzas still unsold and 15 flapjacks unsold, so the price of each is halved for the afternoon. At the end of the day there are still 2 mini pizzas and 1 flapjack left which are given away free to the last customer. If the original 50 mini pizzas and 50 flapjacks had a combined production cost of \$30.00, how much profit is made on the sale of the mini pizzas and flapjacks for the day?

- A \$100.00
- B \$102.50
- C \$115.00
- D \$120.00
- E \$130.00

Question 6

In the UK, most people open a bank account in their teenage years. There is then a tendency not to change banks: eleven per cent of bank customers are still with the bank their parents set them up with when they were a child and haven't changed it since. This strongly suggests that, contrary to what most commentators say, people are not unhappy with the service that their banks provide. Which one of the following, if true, most weakens the above argument?

- A Nearly two-thirds of UK bank customers have changed banks and two per cent have switched over five times.
- B Bank customers say that they feel that all banks provide the same level of service.
- C Nearly two-thirds of customers say they are happy with their bank's service.
- D Bank services change as people get older and their needs change.
- E It is not difficult to change banks.

Question 7

- 7 In order to qualify for a bonus, employees must fulfil certain criteria:

£1,000 bonus	Absences less than 5%
	Production target exceeded by at least 10%
	Rejects are less than 5% of output
£500 bonus	Absences less than 10%
	Production targets met
	Rejects are less than 8% of output

Workers performed as follows:

	Smith	Jones	Patel	Owololu	McKay
Attendance (%)	95	90	100	96	97
Over production target (%)	+5	+6	+12	0	-4
Product accepted (%)	98	96	95	93	96

Who qualifies for a bonus?

- A Nobody
- B Smith
- C Patel and Smith
- D Owololu, Patel and Smith
- E Jones, Owololu, Patel and Smith

Question 8

See image below:

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WINTER SPECTACULAR
AT
THE PLAYTIME THEATRE

From: Saturday 7th December
To: Saturday 28th December

Performances nightly at 7 pm (Sun–Fri)
(Saturdays at 5.30 pm and 8.30 pm)

Matinees Weds, Thurs and Sat at 2 pm

Tickets from £8
(Theatre closed 25th December)

How many times will the Winter Spectacular be performed at the Playtime Theatre during its run?

- A 31
- B 34
- C 35
- D 36
- E 38

Question 9

Should statistics be a compulsory subject of study at school? Why, or why not?

Minimum two arguments for the “for” side. The best team to explain their two reasons wins.

Question 10

Should Western nations refuse to trade with countries in which child labour is used?

Two arguments for both sides. The best team to explain all their reasons wins.