

Name: _____

Exam Style Questions

Percentage of an Amount
Non-Calculator



Equipment needed: Pen, Pencil

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

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Video 234



Answers and Video Solutions



1. Work out 50% of 46



.....
(1)

2. There are 30 students in a class.
10% of the students are left handed.



How many students in the class are left handed?

.....
(1)

3. A bag contains 800 sweets.
25% of the sweets are red.



Work out how many red sweets are in the bag.

.....
(1)

4. Work out 75% of 300



.....
(2)

5. Work out 20% of 90



.....
(2)

6. Work out 80% of 40



.....
(2)

7. A bag of sugar contains 420g.



A special offer packet contains an extra 15%.

Work out how much extra sugar is in the special offer packet.

.....g
(2)

8. Freya says “50% of 30 is equal to 30% of 50.”



Show Freya is correct.

(2)

9. Logan has two tubs of beads.



5% of the 600 beads in Tub A are yellow.

4% of the 900 beads in Tub B are yellow.

Work out the total number of yellow beads in the tubs.

.....
(4)

10. A new car is priced at £7500
In a sale it is reduced by 20%



Calculate the reduction in price.

£.....

(2)

11. 1400 students attend a school.



51% of the students travel to school by bus.

Work out how many students travel to school by bus.

.....

(2)

12. Work out 3% of \$600



\$.....

(2)

13. Last month, 15% of patients were late for their appointments.



- (a) What percentage of patients were **not** late for their appointments?

.....
(1)

920 patients had appointments last month.

- (b) Work out how many patients were late for their appointments.

.....
(2)

-
14. Mary wins £400



She gives 50% to her mother
Mary gives 20% to her sister.
She keeps the rest.

Work out how much each person receives.

Mother £.....

Sister £.....

Mary £.....

(3)

15. Barry's salary is £28000 and he is due to get an increase of 5%. Calculate how much this increase will be.



£.....
(2)

16. Two glasses contain orange juice.



A 400ml glass is 40% full.
A 300ml glass is half full.

Which glass contains less orange juice?

.....
(3)

17. Work out 45% of 540



.....
(2)

18. Increase 360 by 20%



.....
(2)

19. Decrease 800 by 15%



.....
(2)

20. The price of a car tyre is £140

The price is reduced by 25%



Calculate the new price of the car tyre.

£.....
(2)

21. Harry wants to buy a motorbike that costs £1400
 He saves 40% of his wages each month.
Each month Harry earns £500

Calculate how many months it will take Harry to save enough money.

.....
(3)

-
22. There are 20,000 fans at a football match.
 12% of the fans are women.

Work out how many women attended the match.

.....
(2)

23. At Frome International train station, 35% of trains were late in a week.
In that week there were 440 trains.



Calculate how many trains were on time.

.....
(3)

24. Ione makes 240 cupcakes.



A third of the cupcakes are chocolate.
15% of the cupcakes are lemon.
The rest of the cupcakes are vanilla.

Work out the fraction of the cupcakes that are vanilla.

.....
(4)

25. Work out 98% of 700



.....
(2)

26. Work out 175% of 48



.....
(2)

27. An annual train ticket from Telford to Birmingham costs £2500

Next year the price of the annual ticket will increase by 3%



Work out the price of the annual ticket from Telford to Birmingham next year.

£.....
(2)

28. A company is hosting a charity meal.
 800 people work for the company.
It is estimated 70% of the employees will attend.
It is expected that if an employee attends, they will bring a partner.
The cost of attending the meal is £9

Work out how much money should be raised for charity?

£.....
(4)

-
29. 860000 people live in a city.
 55% of the people who live in the city wear glasses.

Work out the number of people who live in the city that wear glasses.

.....
(2)

30. Darren claims if he increases a number by 10% and increases his answer by 10%, that that would be an increase of 20% overall.



Show Darren is incorrect.

(3)

31. Some students sit an exam.
-
- The pass mark is 80%.
- There are 40 marks in each test.

Here are the results:

Martin	30 marks
Gina	35 marks
Ricky	31 marks
Vicky	38 marks
Chloe	29 marks

Work out fraction of the students passed the exam.

.....

(4)

32. 128 out of the 140 counters in a box are red.



Elena adds 60 more counters to the box.
81% of the counters in the box are now red.

Work out how many of the 60 counters Elena added to the box were red.

.....
(3)

33. 600 students applied for a place on a college course.



35% of the students were invited to an interview.
20% of the students at the interview were given a place on a course.

Work out how many of the 600 students were **not** given a place on the course.

.....
(3)

34. In a country, people have to pay tax on their salary as shown.



30% on all earnings over £10,000

David earns £36000

Calculate how much tax he pays.

£.....

(3)

35. A restaurant share the total tips between the waiting staff and the kitchen staff.



The 5 waiting staff equally share 60% of the total tips.

The 8 kitchen staff equally share the rest of the total tips.

The total tips one week were £1600

Work out how much more a member of the waiting staff receives than a member of the kitchen staff.

£.....

(4)

36. Jessica wants to buy 25 candles from Corbett's Candles.



Corbett's Candles

Normally £10.50 each

SALE: 10% off

Work out the cost of buying 25 candles in the sale.

£.....
(4)