

Name:

Exam Style Questions

Fraction of Amounts



Equipment needed: Calculator, pen

Guidance

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

Video Tutorial

www.corbettmaths.com/contents

Video 137



Answers and Video Solutions



1. Work out



$\frac{3}{4}$ of 36

.....
(2)

2. Work out



$\frac{1}{3}$ of 24

.....
(1)

3. Work out



$\frac{2}{5}$ of 35 days

.....
(2)

4. Calculate



$\frac{4}{9}$ of 72 kg

.....
(2)

5. Work out



$\frac{4}{7}$ of 2 weeks

Give your answer in days.

.....days
(2)

6. Calculate



$\frac{5}{8}$ of 14 kg

.....kg
(2)

7. James earns £800 a month.



He spends $\frac{1}{4}$ on rent and $\frac{2}{5}$ on food and bills.

How much money has he left?

£.....
(4)

8. Mrs Johnson set 6 students a test.
The test has 20 questions.



Mrs Johnson says

“to pass you will need to answer $\frac{3}{4}$ of the questions correctly.”

The results were:

Alan	14
Barry	16
Carl	13
Donna	19
Emma	20
Fiona	10

Work out which students passed the test.

.....
(3)

9. Which is larger?



$\frac{1}{2}$ of 280 or $\frac{3}{8}$ of 400

Show your working.

.....
(3)

10. Joanne has 300 sweets.



She gives $\frac{1}{2}$ of the sweets to Erin.

Joanne then gives $\frac{1}{3}$ of the remaining sweets to William.

How many sweets does Joanne have left?

.....
(2)

11. Hannah has \$900.



She spends $\frac{1}{3}$ on books and $\frac{2}{5}$ on presents.

What fraction of the \$900 has she left?

.....
(4)

12. A pair of jeans normally costs £48



In the sales there is $\frac{1}{4}$ off

Work out how much the jeans are in the sales.

£.....
(2)

13. Work out



$\frac{5}{7}$ of 168

.....
(2)

14. Work out



$\frac{4}{3}$ of 288

.....
(2)

15. A shop has 24 bottles of lemonade.



$\frac{2}{3}$ of the bottles contain 500ml.

The rest of the bottles contain 2 litres.

How much lemonade does the shop have in total?

.....
(4)

16. In January a baby elephant weighs 180kg.



By March the weight of the baby elephant had increased by $\frac{3}{8}$

Work out the weight of the baby elephant in March.

.....kg
(3)

17. Bill is 80 years old.



His son Max is $\frac{5}{8}$ of his age.

His granddaughter Jayne is $\frac{1}{5}$ of his age.

How many years older than Jayne is Max?

.....
(4)

18. Georgie works 5 hours each week.



She earns £15 per hour.

Georgie saves $\frac{1}{3}$ of her earnings each week.

How many weeks does it take Georgie to save £200?

.....
(4)

19. Gregory received £2400.



He gave $\frac{1}{3}$ of it to his favourite charity and spent $\frac{1}{5}$ of it on a new violin.

What fraction of his money is left?

.....
(4)

20. A static caravan normally costs £58995



The price is reduced by $\frac{1}{5}$ in a sale.

Work out the sale price of the static caravan.

.....
(2)

21. The attendance at Frome United versus Trowbridge Rovers was 8,701.



Of this crowd, five-sevenths were adults.
Calculate how many children were in the crowd.

.....
(3)

22. A jar of coffee used to contain 520g.



New packets contain one-fifth less.
Work out how much the new packet contains.

.....g
(3)

23. In February, 1400 trains arrived at a train station.



three tenths of the trains were late.

Work out how many trains were not late.

.....
(3)

24. 96 adults and 260 children visit a new museum.



$\frac{1}{6}$ of the adults and $\frac{3}{20}$ of the children are surveyed as they leave.

Work out the total number of people surveyed.

.....
(3)

25. A large coffee costs £3.20



A medium coffee costs $\frac{3}{4}$ of the price of a large coffee.

Work out the total cost of 5 large coffees and 2 medium coffees.

.....
(4)

26. The size of a packet of pasta is increased by one-quarter.
The new size is later reduced by one-quarter.



Is the new packet smaller, the same size or larger than the original?

Explain how you worked out your answer.

(3)

27.



$$\frac{1}{4} \text{ of } 72 = \frac{2}{3} \text{ of } \boxed{}$$

Fill in the missing number.

(2)

28. When a bouncy ball is dropped it will rise to $\frac{4}{5}$ of the height it dropped from.



A ball is dropped from a height of 5 metres and is allowed to bounce repeatedly.

Which is the least number of bounces until its rebound height is less than 2 metres?

Show your working.

.....bounces
(3)

29. There are two parties to vote for in a local election, the Purple Party or the Red Party.



21840 people voted in total for the two parties.

$\frac{5}{8}$ of the people who voted were **over 50**.

$\frac{2}{3}$ of the people aged **over 50** voted for the Red Party.

$\frac{9}{10}$ of the people aged **50 or under** voted for the Purple Party.

(a) Which party received the most votes?

.....
(5)

(b) How many votes did they win by?

.....
(1)