

Name:

Exam Style Questions

Fractions: Finding Original



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 138



Answers and Video Solutions



1. $\frac{1}{3}$ of a number is 5



Work out the number.

.....
(1)

2. I am thinking of a number.
Three-quarters of the number is 12



What is the number?

.....
(2)

3. $\frac{4}{5}$ of y is 20



Find y

.....
(2)

4. $\frac{3}{7}$ of a number is 24



Find the number.

.....
(2)

5. $\frac{1}{25}$ of the cars in a car park are yellow.

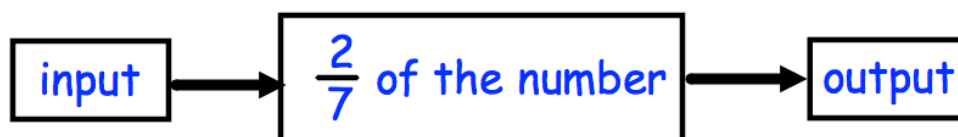


There are 13 yellow cars in the car park.

Work out the total number of cars parked in the car park.

.....
(2)

6.



(a) Work out the output if the input is 28.

.....
(2)

(b) Work out the input if the output is 14

.....
(2)

7. $\frac{13}{16}$ of a number is 7832.5



Calculate the number.

.....
(2)

8. There are red sweets and yellow sweets in a bag.



$\frac{5}{6}$ of the sweets are yellow.

There are 20 yellow sweets in the bag.

Work out how many sweets in total are in the bag.

.....
(2)

9. Gavin wins some money in a raffle.



Gavin gives $\frac{2}{3}$ of the money to charity.

He saves the rest of the money.

Gavin gives £240 to charity.

How much money does Gavin save?

.....
(2)

10. I'm thinking of a number



$\frac{1}{3}$ of the number is 6.

Work out $\frac{1}{2}$ of the number.

.....
(2)

11. Ranjit is thinking of a number



$\frac{3}{4}$ of the number is 360

Work out $\frac{2}{5}$ of the number.

.....
(3)

12. Jessica made lemon cupcakes and chocolate cupcakes for a party.



$\frac{3}{7}$ of the cupcakes are lemon.

She made 52 chocolate cupcakes.

Work out how many cupcakes Jessica made in total.

.....
(3)

13. In a sale, a shop reduces all prices by $\frac{1}{6}$



Ibrahim bought a hat for £35

Work out the original price of the hat.

.....
(2)

14. A water bottle is three eighths full.



Kody pours 400ml of water into the bottle.
The bottle is now full.

Work out how much water the bottle holds.

.....
(3)

15. I'm thinking of a number



A two-fifths of a number is 20.

Work out $2\frac{1}{2}$ times the number.

.....
(3)

16. The students in Year 10 and Year 11 are asked to complete a survey.
There are 180 students in Year 10.



$\frac{3}{10}$ of the students in Year 10 complete the survey.

$\frac{2}{9}$ of the students in Year 11 complete the survey.

The same number of students in both year groups completed the survey.

Work out how many students there are in Year 11.

.....
(4)

17. Alison is selling homemade Christmas decorations.
She has 300 decorations that cost £2 each to make.



Alison sells 250 decorations for the full price.

She then reduces the price of each decorations by $\frac{1}{3}$

Alison sells the remaining decorations for £6 each.

Work out how much profit Alison makes.

.....
(5)

18. Rebecca bought a bag of flour.



She used $\frac{1}{10}$ of the flour to make some pancakes and $\frac{1}{4}$ of the flour to make

some scones.

There is 780g of flour left in the bag.

Work out how much flour is in a full bag.

.....
(4)

19. Barnaby has a bag of yellow, green and pink counters.



$\frac{2}{5}$ of the counters are yellow

$\frac{1}{3}$ of the counters are green.

There are 48 pink counters in the bag.

Work out how many green counters are in the bag.

.....
(5)

20. At 14:00 a stadium is a sixth full of fans.



By 15:00 an additional 6500 fans have entered the stadium.
The stadium is now three fifths full.

Work out the total capacity of the stadium.

.....
(4)

21. Two flights leave an airport, one flying to Edinburgh and the other to Liverpool.
There are 20 less passengers on the flight to Edinburgh than the flight to Liverpool.



On the flight to Edinburgh, $\frac{3}{4}$ of the passengers check-in a hold bag.

On the flight to Liverpool, $\frac{5}{8}$ of the passengers check-in a hold bag.

The same number of passengers on each flight check-in a hold bag.

Work out how many passengers in total checked in a hold bag.

.....
(5)