

Questions

Q1.

(a) Work out $\frac{2}{5} + \frac{1}{4}$

.....
(2)

(b) Write down the value of 2^{-3}

.....
(1)

(Total for question = 3 marks)

Q2.

(a) Write down the square of 8

.....
(1)

(b) Write down the value of 10^3

.....
(1)

(c) Estimate the value of $\sqrt{20}$

.....
(1)

(Total for Question is 3 marks)

Q3.

(a) Write down the value of 7^2

.....
(1)

(b) Write down the value of $\sqrt{25}$

.....
(1)

(c) Write down the value of 2^3

.....
(1)

(Total for Question is 3 marks)

Q4.

Find the value of $(2.8 - 0.45)^2 + \sqrt[3]{5.832}$

.....
(Total for question = 2 marks)

Q5.

Find the value of 5^4

.....
(Total for question = 1 mark)

Q6.

The same number is missing from each box.

$$\square \times \square \times \square = 343$$

(a) Find the missing number.

.....
(1)

(b) Work out 4^4

.....
(1)

(Total for question is 2 marks)

Q7.

(a) Work out the value of 3.1^4

.....
(1)

(b) Simplify $(p^3)^2$

.....
(1)

(c) Simplify $\frac{t^8}{t^3}$

.....
(1)

$$2^3 \times 2^n = 2^9$$

(d) Work out the value of n

.....
(1)

(Total for Question is 4 marks)

Q8.

Write down an example to show that each of the following two statements is **not** correct.

(a) The factors of an even number are always even.

.....
(1)

(b) All the digits in odd numbers are odd.

.....
(1)

(Total for question = 2 marks)

Q9.

Express 56 as the product of its prime factors.

.....
(Total for question = 2 marks)

Q10.

Write down two factors of 12

..... ,
(Total for question = 1 mark)

Q11.

Here is a list of eight numbers

4 5 4 25 29 30 33 39 40

From the list, write down

(i) a factor of 20

.....

(ii) a multiple of 10

.....

(iii) the prime number that is greater than 15

.....

(Total for Question is 3 marks)

Q12.

Here is a list of numbers.

5 15 30 50 60 90 100 125

From the numbers in the list, write down

(i) two different numbers that add up to an even number

.....

(ii) a multiple of 20

.....

(iii) a factor of 45

.....

(iv) a cube number

.....

(Total for Question is 4 marks)

Q13.

Find the Highest Common Factor (HCF) of 24 and 60

.....

(Total for question = 2 marks)

Q14.

(a) Find the lowest common multiple (LCM) of 40 and 56

.....

(2)

$A = 2^3 \times 3 \times 5$ $B = 2^2 \times 3 \times 5^2$

(b) Write down the highest common factor (HCF) of A and B .

.....

(1)

(Total for question = 3 marks)

