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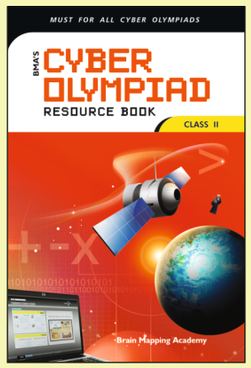


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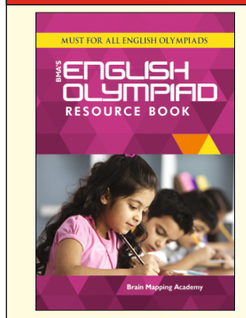


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Sometimes the understanding of fundamental concepts alone does not help the students to crack the competitive exams as most of them are objective in structure. Students need rigorous training to familiarize themselves to the style of the exams they are attempting. The board exams which are of qualifying, but not competitive nature do not completely address the needs of students in testing them in objective type format.

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We took utmost care to make this the best resource book available for the talent /olympiad exams aspirants. We welcome criticism from the students, teacher community and educators, especially concerning any errors and deficiencies which may have remained in this edition and the suggestions for improvement for the next edition.

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| | | |
|---|---|---|
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| General Science | : | 30 Marks |

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| | | |
|---|---|---|
| Mathematics | : | 25 marks |
| General Science | : | 30 Marks |
| Critical Thinking | : | 05 Marks |

**For Classes 6 to 10**

| | | |
|---|---|---|
| Mathematics | : | 25 marks |
| Physics | : | 10 marks |
| Chemistry | : | 10 marks |
| Biology | : | 10 marks |
| Critical Thinking | : | 05 marks |

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| Physics | : | 15 marks |
| Chemistry | : | 15 marks |
| Critical Thinking | : | 05 mark |

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**For Classes 1 & 2**

| | | |
|---|---|---|
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| | | |
|---|---|---|
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CHAPTER 04

# Division

## Synopsis

**Division:**

- Division is a process of separating a given number of objects into groups. It is also considered as a process of repeated subtraction.

**Equal-sharing:**

- Equal sharing or grouping means to divide the things equally without anything being left over or remaining.

**e.g.,** 12 apples are distributed equally among 3 boys. How many apples does each boy get?

**Step - 1:** Give 1 apple to each boy.

Boy – 1 Boy – 2 Boy – 3

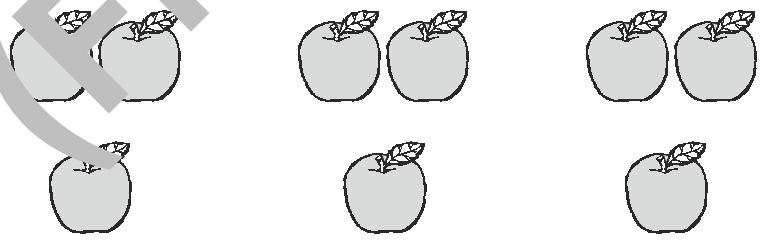
Then, 12 – 3 = 9 apples are remain.

**Step - 2:** Again give 1 apple to each boy.

Boy – 1 Boy – 2 Boy – 3

Then, 9 – 3 = 6 apples remain.

**Step - 3:** Give 1 more apple to each boy.



Boy – 1 Boy – 2 Boy – 3

Then, 6 – 3 = 3 apples remain.

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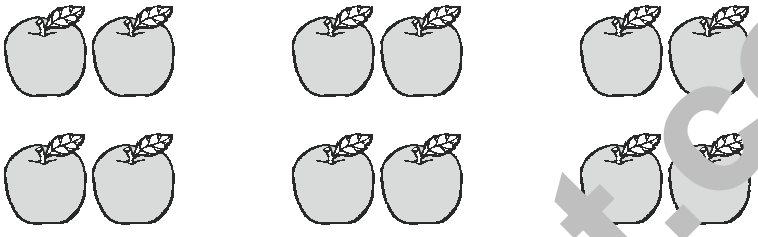
**Step - 4:** Again give 1 more apple to each boy.



Boy – 1 Boy – 2 Boy – 3

Then, 3 – 3 = 0 apples remain. Each boy has got 4 apples and no apple is left.

We observe that when 12 apples are distributed among 3 boys, each boy gets 4 apples.

Thus, 12 ÷ 3 = 4.

**Grouping:**

**e.g.,** 9 balls are to be distributed among some boys. Each boy should get 3 balls. How many boys are there ?

**Step - 1:** Give 3 balls to one boy.

**Boy 1**

Then, 9 – 3 = 6 balls remain.

**Step - 2:** Give 3 balls to the second boy.

**Boy 2**

Then, 6 – 3 = 3 balls remain.

**Step - 3:** Give 3 balls to the third boy.

**Boy 3**

Then, 3 – 3 = 0. Each boy got 3 balls and 9 balls were sufficient for 3 boys.

We observe that, three boys got 3 balls each.

Thus, 9 ÷ 3 = 3.

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## Multiplication and Division facts:

e.g., $5 \times 4 = 20$ → $20 \div 4 = 5$, $20 \div 5 = 4$

## Basic terms used in division:

***Dividend:*** It is the number to be divided.

***Divisor:*** It is the number with which we divide a given num...

***Quotient:*** It is the result obtained on division.

***Remainder:*** It is the number left undivided.

- Dividend = Divisor × Quotient + Remainder
- In division, the remainder has to be either "..." o... than the divisor.

## Properties of division:

- If we divide a number by the nu...er it...lf, ...e quotient is 1.

  e.g., $4 \div 4 = 1$
- If we divide a number by 1, the q...otient is the same as t... nu...er.

  e.g., $8 \div 1 = 8$
- If we divide zero b... numb..., the quotie... is 0.

  e.g., $\frac{0}{7} = 0$

## Long Division:

e.g. Divide 9... by 4 using long di...si...n.

In the given problem,

- 93 is the dividend
- 4 is the divi...

Now the tab... on ...e next page explains the step-wise procedure of dividing 93 with 4 using the long ...ision method.

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| Step | Explanation | Working |
|---|---|---|
| 1 | Arrange the numbers as shown. | 4) 93 ( |
| 2 | We divide from the left.<br>We see that 4 × 2 = 8 is less than 9 and<br>4 × 3 = 12 is greater than 9.<br>We take 2 as the quotient.<br>4 × 2 = 8, 9 – 8 = 1 | 4 × 2 = 8<br>9 – 8 = 1<br>4) 93 (2<br>–8↓<br>13 |
| 3 | We see that 4 × 3 = 12 is less than 13<br>and 4 × 4 = 16 is greater than 13.<br>We take 3 as the quotient.<br>4 × 3 = 12, 13 – 12 = 1<br>So, 1 is the remainder.<br>Thus, 93 ÷ 4 = 23 Remainder = 1. | 4) 93 (23<br>–8↓<br>13<br>–12<br>1 |
| ***Verification:***<br>Dividend = Divisor × Quotient + Remainder<br>93 = 4 × 23 + 1<br>= 92 + 1 = 93<br>∴ The division is correct. | | |

## Even and Odd numbers

- A number with 0, 2, 4, 6 or 8 at ones place is exactly divisible by 2. Such a number is called an even number.
- If a number is divided by 2 then the remainder is 1, the number is called the odd number.
- When a number is divided by 10 the remainder is the ones digit of the number. The other digits of the number is the quotient.

**e.g.,** 359 ÷ 10

$$\begin{array}{r} 10\overline{)359}\,(35 \\ 30 \\ \hline 59 \\ 50 \\ \hline 9 \end{array}$$

∴ 359 ÷ 10 = 35 Q

9 R

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# Level - 1

[ Each question has only one correct option ]

**01** Find the value of (27 ÷ 3) × 8.

(A) 24 (B) 27 (C) 42 (D) 72

**02** Between which two numbers does the quotient of 756 ÷ 8 lie ?

(A) 8 and 10 (B) 11 and 13

(C) 80 and 100 (D) 110 and 130

**03** Find the least number among the following.

(A) 68 ÷ 4 (B) 68 × 4

(C) 68 + 4 (D) 68 – 4

**04** Which of the following should replace * so that 0 * 18 = 0 is correct ?

(A) + or – (B) × or +

(C) × or ÷ (D) + or ÷

**05** Observe the given numbers.

| (i) | (ii) | (iii) | (iv) |
|---|---|---|---|
| 283 | 178 | 25 | 66 |

Which numbers are even ?

(A) Only (i) and (ii)

(B) Only (i) and (iii)

(C) Only (ii) and (iv)

(D) Only (iii) and (iv)

**06** Find the missing number.

432 ÷ ☐ = ☐ fours

(A) 4 (B) 48 (C) 12 (D) 9

**07** Find the number of 9's in the quotient of 7857 ÷ 9 ?

(A) 875 (B) 97 (C) 79 (D) 873

**08** How many 8's are there in 120 ?

(A) 12 (B) 15 (C) 40 (D) 1

**09** Find the greatest number among the following.

(A) 95 × 5 (B) 95 + 5

(C) 95 – 5 (D) 95 ÷ 5

**10** The division problem Roy solved on the blackboard is given in the box.

252 ÷ 7 = 36

Which of the following could Roy use to check his answer ?

(A) 7 × 252 = 36 (B) 36 × 252 = 7

(C) 36 × 7 = 252 (D) 252 × 7 = 36

**11** Victor has 60 stickers. He arranged them in 3 rows. How many stickers were there in each row ?

(A) 3 (B) 10 (C) 20 (D) 16

**12** Which of the following is correct ?

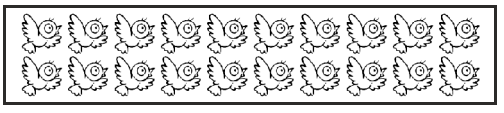
(A) 56 × 10 = 5600

(B) 628 × 0 = 6280

(C) 1000 ÷ 10 = 100 × 10

(D) 593 × 2 = 593 + 593

**13** Suma arranged her toys as shown in the box.



Which operation best shows how she arranged them ?

(A) 5 × 5 (B) 25 × 5

(C) 20 ÷ 20 (D) 20 ÷ 5

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# Level - 1

[ Each question has only one correct option ]

**14** Amala has to put 47 pineapples in 5 baskets. If she evenly divides the pineapples among the 5 baskets, how many will be left over ?

(A) 7 (B) 2 (C) 5 (D) 3

**15** 5 children share 139 blue beads and 196 red beads equally. How many beads does each child get ?

(A) 607 (B) 67

(C) 13 (D) 76

**16** Raju has four plates of laddoos as shown in the figure. He wants to put them equally in four plates.

What should be the number of laddoos in each plate ?

(A) 3 (B) 5 (C) 4 (D) 6

**17** There are 21 bananas in a basket. 3 monkeys happen to eat an equal number of bananas. What is the share of each monkey ?

(A) (B) 9 (C) 3 (D)

**18** A shopkeeper packed 360 biscuits in 12 boxes. How many biscuits are there in each box ?

(A) 25 (B) 30

(C) 5 (D) 13

**19** 5 tens are subtracted from 300 and the difference is divided by 25. What is the quotient ?

(A) 5 (B) 10

(C) 25 (D) 6

**20** Jaya went shopping with ₹ 1200. She had ₹ 1137 after buying 8 books of the same cost. How much did each book cost ?

(A) ₹ 9 (B) ₹ 72

(C) ₹ 144 (D) 8

**21** By how much is the product of 109 and 8 more than the quotient of 728 and 6 ?

(A) 75 (B) 3 (C) 651 (D) 651

**22** 1600 chocolates are to be packed equally in 10 packets. How many chocolates are packed in each packet ?

(A) 16 (B) 50 (C) 10 (D) 32

**23** A dog ate 56 cans of food in 4 weeks. If the dog ate the same amount of food each week, which number sentence can be used to find the number of cans of food the dog eats in one week ?

(A) 56 − 7 = ☐ (B) 56 ÷ 7 = ☐

(C) 56 × 4 = ☐ (D) 56 ÷ 4 = ☐

**24** Rina was reciting the 26 letters of the alphabet in groups of 3 : " ABC, DEF, GHI, . . . .". Before she could finish, her friend Mohan said, "There will be 2 letters left over." Which of the following suggests that Mohan is correct ?

(A) 13 multiplied by 2 equals 26.

(B) 6 divided by 3 equals 2.

(C) 26 divided by 3 leaves a remainder of 2.

(D) 26 divided by 4 leaves a remainder of 2.

**25** 306 marbles are packed into some boxes each containing 4 marbles. How many marbles were left unpacked ?

(A) 8 (B) 2 (C) 4 (D) 6

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# Level - 2

[ Each question has only one correct option ]

**26** **Anupama divided 498 by 8 and obtained a quotient 62 and remainder 2. Which of these checks will help Anupama find out her mistakes ?**

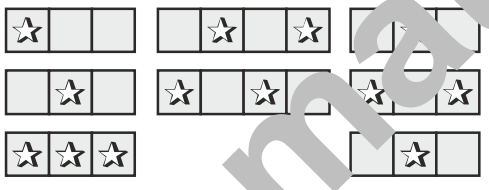
(A) Checking if quotient × dividend + remainder = divisor.

(B) Checking the calculations of 8 × 6 and 8 × 2.

(C) Checking if dividend=divisor × quotient + remainder.

(D) Checking if remainder < divisor.

**27** **This is a seating arrangement for students in a classroom with each box showing one chair. The chairs which have a star mark are occupied.**



**Which of the following statements is true ?**

(A) Twelve chairs are occupied.

(B) Every student has a paper star next to him or her.

(C) Number of empty chairs – Number of occupied chairs

(D) Three more chairs are occupied than empty chairs.

**28** **There are a few pencils in a box. Rahul took out those pencils from the box and put them in five groups of 4 in each. Three pencils were left in the box. How many pencils were there in the box ?**

(A) 30 (B) 25 (C) 17 (D) 23

**29** **832 rubber bands were packed equally into 8 bags. How many rubber bands were there in 6 such bags ?**

(A) 624 (B)

(C) 636 (D) 32

**30** **If the largest 3-digit number is divided by the smallest 2-digit number, which of the following is correct ?**

(A) = 99 , R = 9 (B) Q = 10 , = 99

(C) Q = 10 ; R = 9 (D) = 9 , =

**1** **Rotten oranges out of 248 were thrown away, and the remaining were arranged into baskets of 9 each. How many baskets of oranges were there ?**

(A) 13 (B) 34

(C) (D) 26

**2** **A group of pupils shared 109 stamps. 5 of them shared a total of 45 stamps. The rest had 8 stamps each. How many pupils were there altogether ?**

(A) 5 (B) 13 (C) 18 (D) 8

**33** **Find the dividend.**

□ ÷ 5 = 180 R 3

(A) 900 (B) 903

(C) 915 (D) 540

**34** **There are 252 Hindi books, 132 Maths books and 96 Science books. These books are placed equally on 10 shelves. How many books are there in each shelf?**

(A) 24 (B) 96

(C) 48 (D) 4

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# Level - 2

[ Each question has only one correct option ]

**35** If the cost of 1 packet of PARLE–G biscuits is ₹ 5, how many packets can be bought for ₹ 30 with the FREE OFFER shown ?

(A) 6 (B) 8

(C) 10 (D) 12

**36** If the product of all the three numbers in any row, column or diagonal is same, find the missing term in the given square.

| | | |
|---|---|---|
| 2 | 36 | |
| | ? | 4 |
| | | 18 |

(A) 5 (B) 6

(D) 1

**37** How many 8's are there in the product of 14 and 18 ?

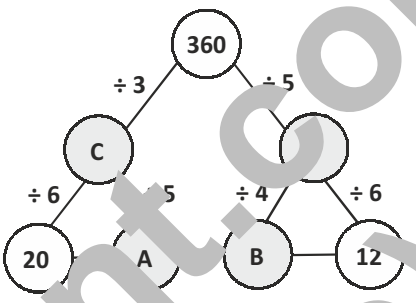
(A) 35 (B) 4

(C) 27 (D) 31

**38** Dhanush had 231 book marks. He gave 139 of them to his friend and put the rest in equal numbers into 8 boxes. How many book marks were there in each box ?

(A) 84 (B) 74 (C) 104 (D) 94

**39** Observe the given figure.




What is the value of A + B ?

(A) 20 (B) 12

(C) 18 72

**40** Which of the following is INCORRECT ?

(A) 165 ÷ 5 is less than 165 × 0.

(B) 53 ÷ 6 is greater than 40 × 2.

(C) × 70 = 70 + 70 +70 +70 +70

(D) 95 – 5369 = 4000 + 100 + 90 + 4

**41** Sonu saves ₹ 4 per week. How many weeks will he take to save ₹ 416 ?

(A) 140 (B) 141

(C) 104 (D) 105

**42** Ram was paid ₹ 400 for 2 days of work. He worked for 4 hours each day. How much was he paid per hour ?

(A) ₹ 60 (B) ₹ 50

(C) ₹ 40 (D) ₹ 20

**43** After giving 8 sweets each to 237 pupils in a school, a teacher had 7 sweets left. How many sweets did the teacher have at first ?

(A) 1903 (B) 1896

(C) 1667 (D) 1659

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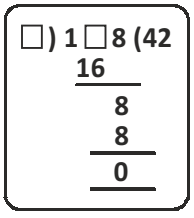
## Stimulating Questions

**44** Find in the missing numbers.




(A) Dividend 4; Divisor 6

(B) Dividend 6; Divisor 4

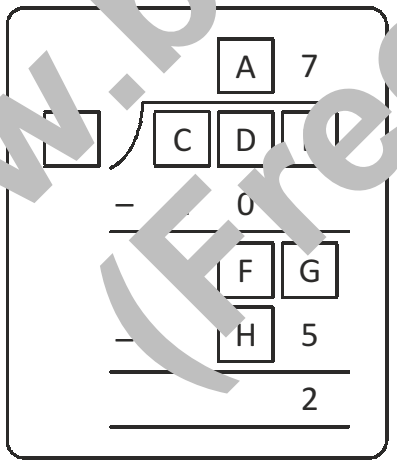
(C) Dividend 8; Divisor 2

(D) Dividend 8; Divisor 2

**45** Four children were asked to divide a number Y by 9 and give the remainder. Their answers were : 1, 10, 8, 6.

Is it possible to say which answer is definitely wrong. (without knowing the value of Y) ? If so, which one ?

**46** Find the values of the letters in the division below.




## Previous Contest Questions

[ Each question has only one correct option ]

**47** Ramya divides a 3-digit number by 1 What can we say about the quotient ?

(A) The quotient is obtained by removing ones digit.

(B) The quotient is obtained by removing tens digit.

(C) The quotient is the ones digit

(D) The quotient is obtained by removing hundreds digit.

**48** Vasu had 6 boxes of stamps. There were 60 stamps in each box. He replaced all the stamps into bags of 9. How many bags did he need ?

(A) 40 (B) 50

(C) 70 (D) 60

**49** 6 ÷ 4 = A and 80 ÷ 4 = B. What is the value of A + B ?

(A) 41 (B) 42

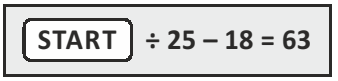
(C) 43 (D) 44

**50** Which of the following calculations gives the largest remainder ?

(A) 443 ÷ 4 (B) 554 ÷ 5

(C) 776 ÷ 7 (D) 887 ÷ 8

**51** What should be the number in the START box ?




(A) 2025 (B) 640

(C) 1120 (D) 207360

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