MATHS

BOOKS - MCGROW HILL EDUCATION

MATHS (HINGLISH)

MATHEMATICAL OPERATIONS

Example

1. If + means $\div$, -means $\times$, $\div$ means + and $\times$ means -, then the value of

$36 \times 12 + 4 \div 6 + 2 - 3$ when simplified is

A. 2

B. 18

C. 42

D. $6\frac{1}{2}$

Answer: C

Watch Video Solution

2. If P denotes $\div$, Q denotes $\times$, R denotes + and S denotes -, then the value of 18Q 12P 4R 5S 6 when simlplified gives

A. 36

B. 53

C. 59

D. 65

Answer: B

Watch Video Solution

3. 7 * 1 = 64, 3 * 9 = 144

What is the value of 5 * 6 ?

A. 22

B. 55

C. 66

D. 121

Answer: D

Watch Video Solution

4. If 9 + 7 = 58, 3 + 11 = 124

What is the value of 13 + 5 ?

A. 38

B. 31

C. 174

D. 36

Answer: A

Watch Video Solution

5. If $9 \times 3 = 36, 11 \times 7 = 81$, then What is the value of 5×13?

A. 65

B. 66

C. 81

D. 51

Answer: C

Watch Video Solution

6. If 31 + 72 = 26, 52 + 45 = 32

then what is the value of 47 + 83?

A. 130

B. 65

C. 22

D. 44

Answer: D

Watch Video Solution

Exercise 1 Type I

1. If - means $\times$, $\times$ means + , + means $\div$ and $\div$ means -, then $40 \times 12 + 3 - 6 \div 60$?

A. 7.95

B. 16

C. 4

D. 479.95

Answer: C

Watch Video Solution

2. If + means $\div$, $\times$ means $-$, $\div$ means $\times$ and - means +, then $8 + 6 \times 4 \div 3 - 4 = ?$

A. -12

B. $-\frac{20}{3}$

C. 12

D. $\frac{20}{3}$

Answer: B

Watch Video Solution

3. If $\times$ means $\div$, - means $\times$, $\div$ means + and + means -, then $(3 - 15 \div 19) \times 8 + 6 = ?$

A. 8

B. 4

C. 2

D. -1

Answer: C

Watch Video Solution

4. If $\times$ means +, $\div$ menas -, - means $\times$ and + means $\div$, then $8 \times 7 - 8 + 40 \div 2 = ?$

A. 1

B. $7\frac{2}{5}$

C. $8\frac{3}{5}$

D. 44

Answer: B

Watch Video Solution

5. If + means - , - means $\times$, $\times$ means $\div$ and $\div$ means + , then $15 \times 3 \div 15 + 5 - 2 = ?$

A. 0

B. 6

C. 10

D. 20

Answer: C

Watch Video Solution

6. If $\times$ means -, + means $\div$, - means $\times$ and $\div$ means +, then $15 - 2 \div 900 + 90 \times 100 = ?$

A. 190

B. 180

C. 90

D. -60

Answer: D

Watch Video Solution

7. If a means 'plus', b means 'minus', c means 'multiplied by' and d means 'divided by then 18 c 14 a 6 b 16 d 4 = ?

A. 63

B. 254

C. 288

D. 1208

Answer: B

Watch Video Solution

8. If A means -, B means $\div$, C means + and D means $\times$, then 15 B 3C 24 A 12 D 2 = ?

A. 34

B. 2

C. $\frac{5}{9}$

D. 5

Answer: D

Watch Video Solution

9. If x stands for 'add', y stands for 'subtract', z stands for 'divide and p stands for 'multiply then what is the value of (7 p 3) y 6 x 5?

A. 5

B. 10

C. 15

D. 20

Answer: D

 Watch Video Solution

10. If A stands for +, B stands for - ,C stands for $\times$, then what is the value of (10 C4) A (4 C 4) B 6?

A. 60

B. 56

C. 50

D. 20

Answer: C

Watch Video Solution

11. If L denotes $\times$, M denotes $\div$, P denotes + and Q denotes $-$, then 16 P 24 M 8 Q6 M2 L 3 = ?

A. $\frac{13}{6}$

B. $-\frac{1}{6}$

C. $14\frac{1}{2}$

D. 10

Answer: D

Watch Video Solution

12. If-means $\div$, + means $\times$, $\div$ means -, $\times$ means +, then which of the following equations is correct?

A. $52 \div 4 + 5 \times 8 - 2 = 36$

B. $43 \times 7 \div 5 + 4 = 25$

C. $36 \times 4 - 12 + 5 \div 3 = 420$

D. $36 - 12 \times 6 \div 3 + 4 = 60$

Answer: A

Watch Video Solution

13. If $\times$ means 'addition', - means 'division', $\div$ means 'subtraction' and + means 'multiplication', then which of the following equations is correct?

A. $16 \times 5 \div 10 \times 4 = 19$

B. $16 + 5 \div 10 \times 4 - 3 = 9$

C. $16 + 5 - 10 \times 4 \div 3 = 9$

D. $16 - 5 \times 10 \div 4 + 3 = 12$

Answer: C

Watch Video Solution

14. If + stands for 'division', $\times$ stands for 'addition', - stands for 'multiplication' and $\div$ stands for 'subtraction', then which of the following equations is correct?

A. $36 \times 6 + 7 \div 2 - 6 = 20$

B. $36 \div 6 + 3 \times 5 - 3 = 45$

C. $36 + 6 - 3 \times 5 \div 3 = 24$

D. $36 - 6 + 3 \times 5 \div 3 = 74$

Answer: D

Watch Video Solution

15. If $\times$ stands for addition', $<$ stands for 'subtraction', + stands for 'division', $>$ stands for multiplication' - stands for 'equal to', $\div$ stands for greater than' and = stands for 'less than', state which of the following is true?

A. $3 \times 2 < 4 \div 16 > 2 + 4$

B. $5 > 2 + 2 = 10 < 4 \times 8$

C. $3 \times 4 > 2 - 9 + 3 < 3$

D. $5 \times 3 < 7 \div 8 + 4 \times 1$

Answer: B

View Text Solution

Exercise 2 Type Ii

1. In each of the following questions, an equation becomes incorrect due to the interchange of two signs. One of the four

alternatives under it specifies the interchange of signs in the equation, which when made will make the equation correct. Find the correct alternative.

$5 + 6 \div 3 - 12 \times 2 = 17$

A. $\div$ and $\times$

B. $+$ and $\times$

C. $+$ and $\div$

D. $+$ and -

Answer: A

Watch Video Solution

2. In each of the following questions, an equation becomes incorrect due to the interchange of two signs. One of the four alternatives under it specifies the interchange of signs in the equation, which when made will make the equation correct. Find the correct alternative.

$2 \times 3 + 6 - 12 \div 4 = 17$

A. $\times$ and +

B. $+$ and -

C. $+$ and $\div$

D. $-$ and $\div$

Answer: A

 Watch Video Solution

3. In each of the following questions, an equation becomes incorrect due to the interchange of two signs. One of the four alternatives under it specifies the interchange of signs in the equation, which when made will

make the equation correct. Find the correct alternative.

$16 - 8 \div 4 + 5 \times 2 = 8$

A. $\div$ and $\times$

B. $-$ and $\div$

C. $\div$ and +

D. $-$ and $\times$

Answer: B

Watch Video Solution

4. In each of the following questions, an equation becomes incorrect due to the interchange of two signs. One of the four alternatives under it specifies the interchange of signs in the equation, which when made will make the equation correct. Find the correct alternative.

$9 + 5 \div 4 \times 3 - 6 = 12$

A. $+$ and $\times$

B. $\div$ and $\times$

C. $\div$ and -

D. + and -

Answer: C

 Watch Video Solution

5. In each of the following questions, an equation becomes incorrect due to the interchange of two signs. One of the four alternatives under it specifies the interchange of signs in the equation, which when made will make the equation correct. Find the correct

alternative.

$12 \div 2 - 6 \times 3 + 8 = 16$

A. $\div$ and +

B. $-$ and +

C. $\times$ and +

D. $\div$ and $\times$

Answer: B

Watch Video Solution

6. In each of the following questions, an equation becomes incorrect due to the interchange of two signs. One of the four alternatives under it specifies the interchange of signs in the equation, which when made will make the equation correct. Find the correct alternative.

$56 \div 7 \times 2 + 8 - 1 = 9$

A. $\times$ and -

B. $\div$ and $\times$

C. $+$ and -

D. $+$ and $\div$

Answer: C

 Watch Video Solution

7. In each of the following questions, an equation becomes incorrect due to the interchange of two signs. One of the four alternatives under it specifies the interchange of signs in the equation, which when made will make the equation correct. Find the correct

alternative.

$72 + 12 \times 3 \div 8 - 6 = 20$

A. + and x

B. + and ÷

C. ÷ and -

D. + and -

Answer: B

Watch Video Solution

8. In each of the following questions, an equation becomes incorrect due to the interchange of two signs. One of the four alternatives under it specifies the interchange of signs in the equation, which when made will make the equation correct. Find the correct alternative.

$121 \div 11 - 3 \times 13 + 2 = 22$

A. $-$ and $\times$

B. $-$ and $\div$

C. $\div$ and -

D. + and -

Answer: A

 Watch Video Solution

9. In each of the following questions, an equation becomes incorrect due to the interchange of two signs. One of the four alternatives under it specifies the interchange of signs in the equation, which when made will make the equation correct. Find the correct

alternative.

$77 + 7 \times 2 \div 4 - 7 = 19$

A. $\div$ and -

B. $\div$ and +

C. $+$ and $\times$

D. $+$ and -

Answer: B

View Text Solution

10. In each of the following questions, an equation becomes incorrect due to the interchange of two signs. One of the four alternatives under it specifies the interchange of signs in the equation, which when made will make the equation correct. Find the correct alternative.

$380 \times 19 + 2 - 4 \div 2 = 14$

A. $\times$ and $+$

B. $\times$ and $\div$

C. $\div$ and $\times$

D. + and -

Answer: C

Watch Video Solution

Exercise 3 Type Iii

1. In each of the following questions if the interchanges are made in signs and numbers, which one of the four equations would be correct?

Given interchanges: Signs: - and $\div$ and numbers 4 and 8

A. $6 - 8 \div 4 = -1$

B. $8 - 6 \div 4 = 1$

C. $4 \div 8 - 2 = 6$

D. $4 - 8 \div 6 = 2$

Answer: C

Watch Video Solution

2. In each of the following questions if the interchanges are made in signs and numbers, which one of the four equations would be correct?

Given interchanges: Signs: + and $\times$ and numbers 4 and 5

A. $5 \times 4 + 20 = 40$

B. $5 \times 4 + 20 = 85$

C. $5 \times 4 + 20 = 104$

D. $5 \times 4 + 20 = 95$

Answer: C

Watch Video Solution

3. In each of the following questions if the interchanges are made in signs and numbers, which one of the four equations would be correct?

Given interchanges: Signs: + and - and numbers 4 and 8

A. $4 \div 8 - 12 = 16$

B. $4 - 8 + 12 = 0$

C. $8 \div 4 - 12 = 24$

D. $8 - 4 \div 12 = 8$

Answer: B

Watch Video Solution

4. In each of the following questions if the interchanges are made in signs and numbers, which one of the four equations would be correct?

Given interchanges: Signs: - and $\times$ and numbers 3 and 6

A. $6 - 3 \times 2 = 9$

B. $3 - 6 \times 8 = 10$

C. $6 \times 3 - 4 = 15$

D. $3 \times 6 - 4 = 33$

Answer: B

Watch Video Solution

5. In each of the following questions if the interchanges are made in signs and numbers, which one of the four equations would be correct?

Given interchanges: Signs: $\div$ and + and numbers 4 and 2

A. $4 + 2 \div 1 = \frac{3}{2}$

B. $2 + 4 - : 3 = 6$

C. $4 + 3 \div 3 = 3$

D. $2 + 4 \div 5 = 8$

Answer: A

View Text Solution

6. In each of the following questions if the interchanges are made in signs and numbers, which one of the four equations would be correct?

Given interchanges: Signs: $\div$ and $+$ and numbers 6 and 3

A. $3 + 6 \div 2 = 5$

B. $6 \div 3 + 2 = 8$

C. $3 + 6 \div 5 = 7$

D. $3 \div 6 + 1 = 6$

Answer: C

Watch Video Solution

7. In each of the following questions if the interchanges are made in signs and numbers, which one of the four equations would be correct?

Given interchanges: Signs: $\times$ and $+$ and numbers 2 and 8

A. $8 \times 2 + 9 = 19$

B. $2 \times 8 + 10 = 13$

C. $2 + 8 \times 6 = 22$

D. $8 \times 2 + 6 = 19$

Answer: C

Watch Video Solution

8. In each of the following questions if the interchanges are made in signs and numbers, which one of the four equations would be correct?

Given interchanges: Signs: + and - and numbers 2 and 1

A. $1 - 2 + 3 = 0$

B. $1 + 2 - 5 = 7$

C. $1 + 2 - 3 = 7$

D. $1 - 3 + 2 = 1$

Answer: A

Watch Video Solution

9. In each of the following questions if the interchanges are made in signs and numbers, which one of the four equations would be correct?

Given interchanges: Signs: $\div$ and $+$ and numbers 9 and 3

A. $3 + 9 \div 4 = 8$

B. $3 \div 3 + 9 = 13$

C. $3 + 9 \div 2 = 5$

D. $3 + 9 \div 9 = 2$

Answer: C

Watch Video Solution

10. In each of the following questions if the interchanges are made in signs and numbers, which one of the four equations would be correct?

Given interchanges: Signs: - and + and numbers 8 and 4

A. $4 + 8 - 1 = 5$

B. $4 - 8 + 5 = 9$

C. $4 + 8 - 5 = 10$

D. $4 - 8 + 12 = 1$

Answer: A

Watch Video Solution

Exercise 4 Type Iv

1. In each of the following questions , three statements of numbers following same rules are given . Find the rule and accordingly find the value of the number ?

If $3 + 9 = 31, 15 + 12 = 45, 18 + 9 = 36$

then 12 + 27 = ?

A. 94

B. 14

C. 49

D. 53

Answer: A

Watch Video Solution

2. In each of the following questions , three statements of numbers following same rules are given . Find the rule and accordingly find the value of the number ?

If $1 \times 2 = 32, 4 \times 3 = 712, 4 \times 7 = 1128,$ then $5 \times 1 = ?$

A. 63

B. 64

C. 65

D. 66

Answer: C

 Watch Video Solution

3. In each of the following questions , three statements of numbers following same rules are given . Find the rule and accordingly find the value of the number ?

If $2 \times 1 = 81, 3 \times 2 = 278, 2 \times 5 = 8125$,

then $1 \times 3 = ?$

A. 127

B. 271

C. 126

D. 129

Answer: A

Watch Video Solution

4. In each of the following questions , three statements of numbers following same rules are given . Find the rule and accordingly find the value of the number ?

If $213 = 419, 322 = 924, 415 = 16125,$ then 215 = ?

A. 425

B. 1625

C. 4125

D. 2541

Answer: C

Watch Video Solution

5. In each of the following questions , three statements of numbers following same rules are given . Find the rule and accordingly find the value of the number ?

if 68 = 43. 2046 = 3201 , 688 = 443, then 2008 ?

A. 4002

B. 1004

C. 4001

D. 4020

Answer: C

Watch Video Solution

6. In each of the following questions , three statements of numbers following same rules are given . Find the rule and accordingly find the value of the number ?

If 43 = 158 , 35 = 824 , 42 = 153 , then 32 = ?

A. 84

B. 83

C. 85

D. 94

Answer: C

 Watch Video Solution

7. In each of the following questions , three statements of numbers following same rules are given . Find the rule and accordingly find

the value of the number ?

$2 \div 3 = 89, 3 \div 4 = 2716, 4 \div 3 = 649$, then

$1 \div 2 = ?$

A. 21

B. 42

C. 14

D. 81

Answer: B

Watch Video Solution

8. In each of the following questions , three statements of numbers following same rules are given . Find the rule and accordingly find the value of the number ? If 7*3 =52, 9*5 = 86, 3*4 = 13 , then 5*7 = ?

A. 30

B. 32

C. 40

D. 57

Answer: C

Watch Video Solution

9. In each of the following questions , three statements of numbers following same rules are given . Find the rule and accordingly find the value of the number ?

$3 + 5 = 16, 7 + 9 = 64, 10 + 12 = 121$, then 11 + 3 = ?

A. 56

B. 48

C. 49

D. 196

Answer: C

Watch Video Solution

10. In each of the following questions , three statements of numbers following same rules are given . Find the rule and accordingly find the value of the number ?

If 3*7 = 58, 5*6 = 61, 3*2 = 13 , then 5*4 = ?

A. 39

B. 41

C. 81

D. 90

Answer: B

 Watch Video Solution

11. In each of the following questions , three statements of numbers following same rules are given . Find the rule and accordingly find

the value of the number ? If 24 + 35 = 28, 15 + 42 = 24, 84 + 57 = 48 then 69 + 37 = ?

A. 62

B. 56

C. 38

D. 50

Answer: D

Watch Video Solution

12. In each of the following questions , three statements of numbers following same rules are given . Find the rule and accordingly find the value of the number ?

If $84 \oplus 72 = 45, 63 \oplus 41 = 33, 25 \oplus 52 = 33$ then $94 \oplus 82 = \ ?$

A. 45

B. 59

C. 56

D. 65

Answer: C

Watch Video Solution

13. In each of the following questions , three statements of numbers following same rules are given . Find the rule and accordingly find the value of the number ?

If $4 \times 8 = 42, 6 \times 4 = 23, 8 \times 6 = 34,$ then $2 \times 4 = ?$

A. 25

B. 21

C. 26

D. 42

Answer: B

 Watch Video Solution

14. In each of the following questions , three statements of numbers following same rules are given . Find the rule and accordingly find the value of the number ?

If $3 + 8 = 17, 5 - 2 = 23, 6 \times 2 = 72$, then

$8 \div 4 = ?$

A. 12

B. 18

C. 25

D. 16

Answer: D

Watch Video Solution

15. In each of the following questions , three statements of numbers following same rules are given . Find the rule and accordingly find the value of the number ?

If

$36 \times 92 = 9623, 25 \times 82 = 8522, 68 \times 75 = 7856$

then $47 \times 52 = \ ?$

A. 5742

B. 5274

C. 7427

D. 5724

Answer: D

Watch Video Solution

16. In each of the following questions , three statements of numbers following same rules are given . Find the rule and accordingly find the value of the number ?

If $3 \times 4 = 14, 5 \times 6 = 33, 7 \times 8 = 60$, then $8 \times 9 = ?$

A. 77

B. 89

C. 98

D. 79

Answer: A

 Watch Video Solution

17. In each of the following questions , three statements of numbers following same rules are given . Find the rule and accordingly find the value of the number ?

If $32 \times 41 = 15, 51 \times 34 = 47, 41 \times 52 = 37$

then 87×53 = ?

A. 68

B. 64

C. 85

D. 18

Answer: D

Watch Video Solution

18. In each of the following questions , three statements of numbers following same rules are given . Find the rule and accordingly find the value of the number ?

If $2 \times 8 = 4, 3 \times 27 = 9, 6 \times 24 = 4,$ then $5 \times 40 = \ ?$

A. 12

B. 10

C. 8

D. 6

Answer: C

Watch Video Solution

19. In each of the following questions , three statements of numbers following same rules are given . Find the rule and accordingly find the value of the number ?

If $3 + 2 = 7, 4 + 3 = 10, 5 + 4 = 13,$ then 6 + 5 = ?

A. 17

B. 18

C. 15

D. 16

Answer: D

Watch Video Solution

20. In each of the following questions , three statements of numbers following same rules are given . Find the rule and accordingly find the value of the number ?

If $5 \times 9 = 144, 7 \times 8 = 151, 4 \times 6 = 102$,

then $2 \times 5 = ?$

A. 73

B. 77

C. 37

D. 97

Answer: A

Watch Video Solution