

REASONING

Mathematical Operations Worksheet for MAH MCA CET 2025

For students preparing for MCA Entrance Exam.

1. Which two signs should be interchanged to make the given equation correct?

$$4+8 \times 12 \div 6-4=8$$

- A. \times and $+$
- B. $+$ and \div
- C. $-$ and $+$
- D. \div and $-$

2. Which of the following interchanges of signs and numbers would make the given equation correct?

$$8 \div 2-6 \times 4+3=13$$

- A. $-$ and $+$, 6 and 4
- B. \div and $+$, 4 and 8
- C. \times and \div , 8 and 6
- D. \times and $-$, 2 and 6

3. Which two numbers should be interchanged to make the given equations correct?

$$6 \times 3 - 8 \div 2 + 5 = 8 \div 2 + 3 \times 5 - 6$$

- A. 6 and 2
- B. 8 and 6
- C. 5 and 6
- D. 3 and 5

4. Which two numbers should be interchanged to make the given equation correct?

$$9 + 4 \div 2 - 6 \times 3 = 4 \div 3 \times 6 - 9 + 1$$

- A. 6 and 3
- B. 4 and 9
- C. 4 and 2
- D. 6 and 4

5. Which of the following interchanges of signs and numbers would make the given equation correct?

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

- A. \times and $-$, 4 and 6

B. \div and $+$, 6 and 4

C. \times and \div , 4 and 6

D. $-$ and $+$, 6 and 4

6. Which two signs should be interchanged to make the following equation correct?

$$18 + 12 \times 8 - 6 \div 3 = 9$$

- A. $+$ and \times
- B. $-$ and \times
- C. \times and \div
- D. \div and $+$

7. Which two numbers should be interchanged to make the given equation correct?

$$4 \times 2-8+9 \div 3 = 9 \div 3+4 \times 2-8$$

- A. 3 and 4
- B. 3 and 2
- C. 8 and 3
- D. 8 and 4

8. Which of the following interchanges of sign and numbers would make the given equation correct?

$$12 \times 18 \div 3-6+4=5$$

- A. \div and \times , 6 and 3
- B. \div and \times , 4 and 3
- C. \div and $+$, 3 and 4
- D. \times and $+$, 3 and 6

9. Which two signs should be interchanged to make the following equation correct?

$$10-15 \times 9+6 \div 3=9$$

- A. $-$ and $+$
- B. \div and $+$
- C. $+$ and $-$
- D. \times and $-$

10. Which two signs should be interchanged to make the given equation correct?

$$9 + 12 \div 6 \times 8 - 4 = 14$$

- A. - and \times
- B. + and \times
- C. \div and +
- D. \times and \div

11. Which of the following interchanges of signs and numbers would make the following equation correct?

$$18 - 8 \div 12 \times 6 + 10 = 12$$

- A. \times , \div , 12 and 6
- B. +, -, 8 and 10
- C. +, -, 6 and 8
- D. \times , -, 18 and 6

12. Which two numbers should be interchanged to make the following equation correct?

$$8 + 12 \div 9 \times 6 - 4 = 12 \div 6 \times 8 + 9 - 1$$

- A. 12 and 8
- B. 6 and 9
- C. 6 and 12
- D. 8 and 4

13. If sign ' \times ' is interchanged with ' \div ' and number '3' is interchanged with '2', then which of the following equations would be correct?

- A. $3 \div 2 \times 2 + 2 - 3 = 1$
- B. $3 \times 2 \div 2 + 2 - 3 = 3$
- C. $2 \times 3 \div 2 + 2 - 3 = 0$
- D. $2 \times 3 - 2 + 2 \div 3 = 0$

14. Which two signs should be interchanged to make the given equation correct?

- A. \div and +
- B. \times and +
- C. \times and -
- D. \div and \times

15. If + means ' \div ', - means '+', \times means '-' and \div means ' \times ', then what will be the value of the following expression?

$$18 \div 6 - 27 + 3 \times 12 = ?$$

- A. 92
- B. 105
- C. 95
- D. 107

16. If \div stands for '+', \times stands for \div , '+' stands for '-' and '-' stands for \times , then what will be the value of the following expression?

$$16 - 4 + 12 \times 3 \div 5$$

- A. 59
- B. 67
- C. 65
- D. 53

17. If '\$' stands for addition, '%' stands for subtraction, '#' stands for multiplication and '@' stands for division, then what is the value of

$$18 \# 2 @ 2 \$ 18 \% 18$$

- A. 36
- B. 0
- C. 2
- D. 18

18. Which two symbols should be interchanged to make the following equation correct?

$$20 + 5 \times 3 \div 3 - 1 = 14$$

- A. \div and \times
- B. \times and -
- C. \times and +
- D. \div and +

19. Which option gives the two signs that need to be interchanged to make the given equation correct?

$$6 - 20 \div 12 \times 7 + 1 = 70$$

- A. \div and +
- B. \times and -
- C. \times and +
- D. \div and \times

20. If '\$' stands for addition, '@' stands for subtraction, '#' stands for multiplication and '&' stands for division, then what is the value of

$$12 \# 8 \$ 36 \& 3 @ 6 ?$$

- A. 98
- B. 102
- C. 79
- D. 46

21. Select the correct equation from the given options after interchanging operations '-' and ' \times ' and numbers '4' and '5'.

- A. $9 - 4 \times 5 = 21$
- B. $5 \times 4 - 9 = 7$
- C. $5 \times 9 - 4 = 4$
- D. $4 - 5 \times 9 = 11$

22. If '+' stands for '-', '-' stands for ' \times ', ' \times ' stands for ' \div ' and ' \div ' stands for '+', then what will be the value of the following expression?

$$14 - 3 + 10 \times 5 \div 5$$

- A. 65
- B. 48
- C. 45
- D. 40

23. Which option gives the two signs that need to be interchanged to make the given equation correct?

$$24 - 8 \div 5 + 5 \times 3 = 13$$

- A. \times and $+$
- B. \times and \div
- C. \div and $+$
- D. \div and $-$

24. Which option gives the two signs that need to be interchanged to make the given equation correct?

$$15 \div 15 \times 10 - 10 + 5 = 15$$

- A. \div and \times
- B. $+$ and $-$
- C. \times and $-$
- D. \div and $-$

25. Find out the two signs to be interchanged for making the following equation correct.

$$\frac{1}{4} \div \frac{1}{64} - 5 + 45 \times 120 = 5$$

- A. \times and $+$
- B. \div and $-$
- C. $+$ and $-$
- D. \times and $-$

26. If ' \div ' means ' \times ', ' \times ' means ' $+$ ', ' $+$ ' means ' $'$ ' and ' $'$ ' means ' \div ', then what will be the value of the following.

$$16 \times 3 \div 5 - 2 \div 4$$

- A. 10
- B. 7
- C. 9
- D. 19

Q27. Which two signs should be interchanged to make the following equation correct?

$$7 \times 2 + 5 - 16 \div 4 = 13$$

- A. \times and $-$
- B. \times and $+$
- C. \div and $+$
- D. \div and \times

Q28. Which two numbers should be interchanged to make the following equation correct?

$$7 - 8 \div 4 + 5 \times 3 = 8 \times 3 + 6 \div 2 - 3$$

- A. 4 and 5
- B. 7 and 5
- C. 4 and 2
- D. 6 and 7

Q29. If ' \times ' stands for addition, ' \div ' stands for subtraction, ' $+$ ' stands for multiplication and ' $'$ ' stands for division, then what will be the value of the following expression?

$$26 \div 13 \times 8 + 6 - 2$$

- A. 17
- B. 47
- C. 27
- D. 37

30. If sign ' $+$ ' is interchanged with ' \div ' and number ' 2 ' is interchanged with ' 6 ', which of the following equations would be

- A. $8 + 6 \div 2 = 8$
- B. $2 + 8 \div 6 = 6$
- C. $2 + 8 \div 2 = 8$
- D. $2 + 6 \div 8 = 11$

Answer Key

1. B	2. C	3. C	4. D	5. B	6. D	7. D	8. A	9. A	10. D
11. C	12. C	13. B	14. D	15. B	16. C	17. D	18. D	19. A	20. B
21. D	22. C	23. D	24. B	25. D	26. C	27. B	28. B	29. D	30. D

