











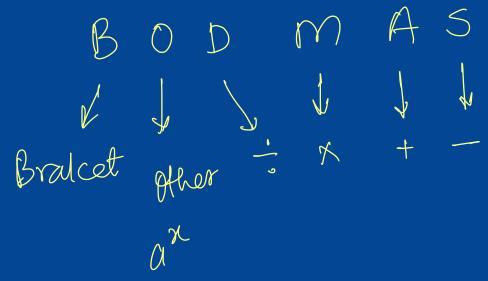
FOR MAH MCA CET 2025



Mathematical Operations

Use of BODMAS rule to solve questions based on mathematical operations

$$5 + 2 \times 3 + 4 \div 2$$
 $5 + 6 + 2$
 $11 + 2 = 13$





Types of Questions

- · Sign based (Alter/ Interchange)
- Trick based



Sign based

Which two signs should be interchanged to make the

given equation correct?

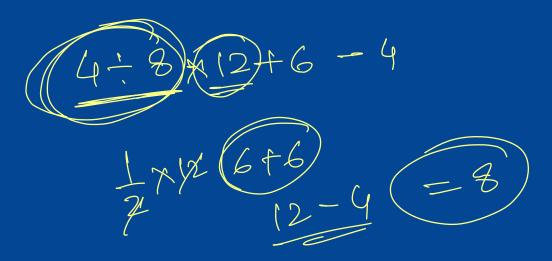
$$4 + 8 \times 12 \div 6 = 4 = 8$$

 $(a) \times and +$

$$(b)$$
 + and ÷

(c) - and +







Balancing of equation using signs

24 4 5 4

(a)
$$\tilde{x} + \tilde{y}$$

$$(b) = x +$$

$$(C) + X \bigcirc X$$

$$=+x$$

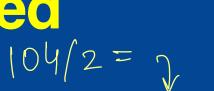
$$24 = 44(57)$$

$$24 = 44574$$

$$24 = 44574$$



Trick based



34 X 12 = 23

46 (23)

If 34 * 12 = 23, 28 * 76 = 52, 97 * 39 = 68 then what is

the value of $37 \times 73 = ?$

(a) 32

(b) 25

(c) 55

(d) 65



Which two signs need to be interchanged to make the following equation correct?

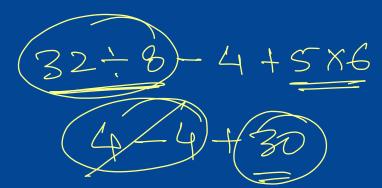
$$32 - 8 \div 4 + 5 \times 6 = 30$$

(a)
$$\times$$
 and +

(a)
$$\times$$
 and $+$ (b) \times and \div

$$(c) \div and - (d) \div and +$$

$$(d) \div and +$$



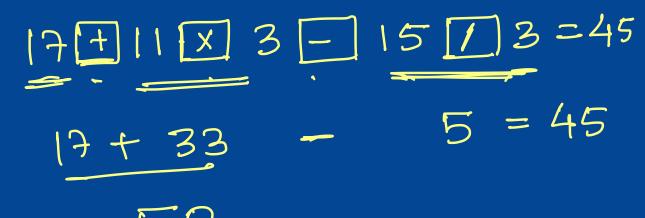


Which of the following pairs of numbers and signs) when their positions are interchanged, will correctly solve

the given mathematical equation?

$$17 \div 15 + 3-11/3 = 45$$

- (b) 17 and 3, and /
- (c) 15 and 11, and *
- (d) 15 and 11, + and -





If + means -, - means *, * means / , and / means +, then what will be the value of the following expression ?

$$13 - 3 + 15 * 3 / 5 = ?$$
(a) 41 (b) 37 (c) 42 (d) 39

$$\frac{13\times 3 - 15/3 + 5}{39 - 5/3 + 5} = 39$$



Select the correct equation after interchanging operations '+' and '-' and numbers '4' and '8'.

(a) $2 + 8 - 4 = 9 \times 4 - 8$

(a)
$$2 + 8 - 4 = 9 \times$$

(c)
$$8 + 4 - 2 = 10$$

$$4 - 8 + 11 = 1$$

(d)
$$4 - 8 + 11 = 8$$



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

$$9 + 7 \times 5 - 18 \div 2 = 3 \times 4 - 10 + 45 \div 5$$

(a) 2 and 5 9 (b) 9 and 3

7 and 4 (d) 18 and 45 (s)

$$9 + 7 \times 5 = 9 = 3 \times 4 - 10 + 9$$

$$97 + 20 - 91 = 21 - 10 + 9$$

 $20 = 20$



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

$$7+24\times3-72\div18+58$$

- (a) 18 and 24
- (b) 3 and 7
- (c) 7 and 18
- (d) 72 and 24 ×

$$7+18\times3-72+24$$
 $7+54-3$
 $61-3=69$



Select the correct combination of mathematical signs to replace the sign(*) and balance the following equation.

15*4*26*2*7*66

SSC CHSL 19/03/2020 (Evening)

$$(a) +, x, \div, -, =$$

(b) x, +, -, ÷,
$$\neq$$
 15 - 4 - 26 \(\frac{1}{2} = 7 = 66\)
(c) +, x, -, ÷, \neq



Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the following equations:

$$(a) +, x, \div, -,=$$

(b) +, x, -,
$$\div$$
, = X

(d)
$$X, +, \div, \div, =$$

(d) $X,+, -, \div, =$

$$\frac{11 \times 15 + 13 - 18}{165 + 13 - 18} = 160$$

$$178 - 18 = 160$$

$$178 - 18 = 160$$

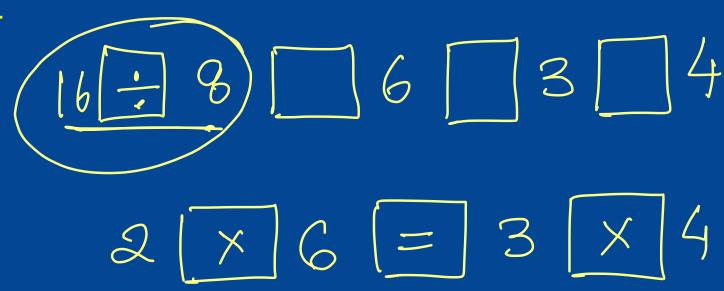


Select the correct combination of mathematical signs to replace 'A' sequentially and balance the following equation.

16 A 8 A 6 A 3 A 4

$$(a) \div, x, =,$$

(d)
$$x_1 = -1, \div$$

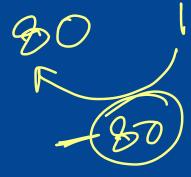


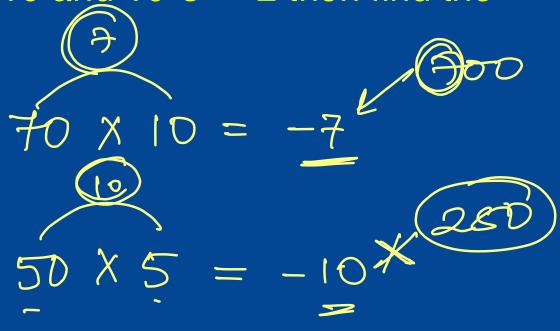


If 70 * 10 = -7, 50*5 = -10 and 10*5 = -2 then find the

value of 80*1=?

- (a) 45
- (b) -25
- (c) 20
- (d) 80





$$10 \times 5 = -2$$

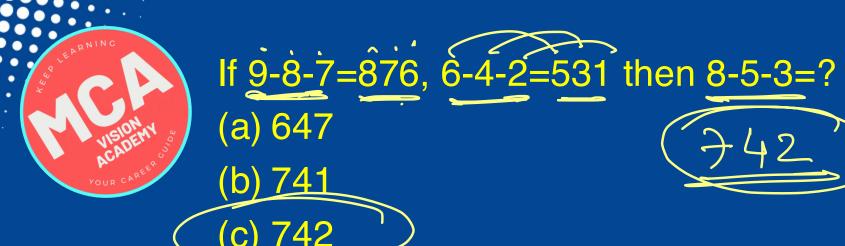


If 3%2 = 50, 2%4 = 60, then what is the value of 5%4 = ?

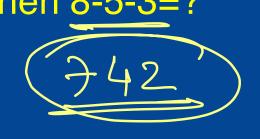
- (a) 16
- (b) 9
- (c) 90
 - (d) 20







(d) 572















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