

# ANSWER

## COMMUTATIVE PROPERTY OF ADDITION

CHANGE THE ORDER AND SOLVE (SHOW YOUR WORK)

$$1. \quad 12 + 5 + 8$$

$$12 + 8 + 5$$

$$12 + 13$$

$$25$$

$$6. \quad 90 + 21 + 1$$

$$1 + 21 + 90$$

$$22 + 90$$

$$112$$

$$2. \quad 16 + 28 + 52$$

$$28 + 16 + 52$$

$$44 + 52$$

$$96$$

$$7. \quad 16 + 5 + 20$$

$$5 + 20 + 16$$

$$21 + 20$$

$$41$$

$$3. \quad 10 + 6 + 2$$

$$2 + 10 + 6$$

$$12 + 6$$

$$18$$

$$8. \quad 39 + 7 + 2$$

$$2 + 39 + 7$$

$$41 + 7$$

$$48$$

## COMMUTATIVE PROPERTY OF MULTIPLICATION

CHANGE THE ORDER AND SOLVE (SHOW YOUR WORK)

$$1. \quad 42 \times 16 \times 2$$

$$16 \times 42 \times 2$$

$$16 \times 84$$

$$1344$$

$$2. \quad 20 \times 31 \times 4$$

$$31 \times 4 \times 20$$

$$124 \times 20$$

$$2480$$

$$3. \quad 42 \times 10 \times 6$$

$$6 \times 42 \times 10$$

$$252 \times 10$$

$$2520$$

$$4. \quad 20 \times 18 \times 9$$

$$9 \times 20 \times 18$$

$$180 \times 18$$

$$3240$$

$$5. \quad 50 \times 11 \times 5$$

$$5 \times 11 \times 50$$

$$6. \quad 90 \times 15 \times 4$$

$$15 \times 4 \times 90$$

$$60 \times 90$$

$$5400$$

$$4. \quad 28 + 60 + 15$$

$$60 + 28 + 15$$

$$60 + 43$$

$$103$$

$$9. \quad 40 + 26 + 8$$

$$8 + 40 + 26$$

$$48 + 26$$

$$74$$

$$7. \quad 70 \times 26 \times 12$$

$$26 \times 12 \times 70$$

$$312 \times 70$$

$$21840$$

$$8. \quad 25 \times 22 \times 10$$

$$10 \times 25 \times 22$$

$$250 \times 22$$

$$5500$$

$$5. \quad 22 + 18 + 4$$

$$18 + 22 + 4$$

$$40 + 4$$

$$44$$

$$10. \quad 7 + 5 + 2$$

$$2 + 7 + 5$$

$$9 + 5$$

$$14$$

$$9. \quad 5 \times 8 \times 7$$

$$8 \times 5 \times 7$$

$$40 \times 7$$

$$280$$

$$10. \quad 6 \times 18 \times 15$$

$$15 \times 6 \times 18$$

$$90 \times 18$$

$$1620$$

# ANSWER

## ASSOCIATIVE PROPERTY OF ADDITION

REGROUP AND SOLVE (SHOW YOUR WORK)

1.  $(21 + 8) + 6$   
 $21 + (8 + 6)$   
 $21 + 14$   
 $35$

2.  $16 + (20 + 4)$   
 $(16 + 20) + 4$   
 $36 + 4$   
 $40$

3.  $42 + (11 + 2)$   
 $(42 + 11) + 2$   
 $53 + 2$   
 $55$

4.  $(22 + 15) + 10$   
 $22 + (15 + 10)$   
 $22 + 25$   
 $47$

5.  $40 + (4 + 16)$   
 $(40 + 4) + 16$   
 $44 + 16$   
 $60$

6.  $7 + (16 + 18)$   
 $(7 + 16) + 18$   
 $23 + 18$   
 $41$

7.  $(10 + 23) + 6$   
 $10 + (23 + 6)$   
 $10 + 29$   
 $39$

8.  $25 + (18 + 4)$   
 $(25 + 18) + 4$   
 $43 + 4$   
 $47$

9.  $(17 + 9) + 10$   
 $17 + (9 + 10)$   
 $17 + 19$   
 $36$

10.  $5 + (16 + 9)$   
 $(5 + 16) + 9$   
 $20 + 9$   
 $29$

## ASSOCIATIVE PROPERTY OF MULTIPLICATION

REGROUP AND SOLVE (SHOW YOUR WORK)

1.  $(14 \times 12) \times 2$   
 $14 \times (12 \times 2)$   
 $14 \times 24$   
 $336$

2.  $20 \times (3 \times 10)$   
 $(20 \times 3) \times 10$   
 $60 \times 10$   
 $600$

3.  $(16 \times 4) \times 15$   
 $16 \times (4 \times 15)$   
 $16 \times 20$   
 $320$

4.  $25 \times (12 \times 16)$   
 $(25 \times 12) \times 16$   
 $300 \times 16$   
 $4800$

5.  $14 \times (13 \times 2)$   
 $(14 \times 13) \times 2$   
 $182 \times 2$   
 $364$

6.  $(16 \times 4) \times 5$   
 $16 \times (4 \times 5)$   
 $16 \times 20$   
 $320$

7.  $(30 \times 7) \times 5$   
 $30 \times (7 \times 5)$   
 $30 \times 35$   
 $1050$

8.  $10 \times (6 \times 11)$   
 $(10 \times 6) \times 11$   
 $60 \times 11$   
 $660$

9.  $22 \times (16 \times 18)$   
 $(22 \times 16) \times 18$   
 $352 \times 18$   
 $6336$

10.  $10 \times (2 \times 6)$   
 $(10 \times 6) \times 2$   
 $60 \times 2$   
 $120$

## CHANGE THE ORDER , GROUP , AND SOLVE(SHOW YOUR WORK)

1.  $6 + 2 + 5 + 8$   
 $8 + 2 + 5 + 6$   
 $(8 + 2) + (5 + 6)$   
 $10 + 11$   
 $21$

2.  $16 + 8 + 6 + 2$   
 $8 + 2 + 16 + 6$   
 $(8 + 2) + (16 + 6)$   
 $10 + 22$   
 $32$

3.  $20 + 2 + 17 + 7$   
 $17 + 20 + 2 + 7$   
 $(17 + 20) + (2 + 7)$   
 $37 + 9$   
 $46$

4.  $10 + 2 + 5 + 3$   
 $3 + 10 + 5 + 2$   
 $(3 + 10) + (5 + 2)$   
 $13 + 7$   
 $20$

5.  $27 + 22 + 11 + 4$   
 $4 + 22 + 11 + 27$   
 $(4 + 22) + (11 + 27)$   
 $26 + 38$   
 $64$

6.  $15 + 14 + 12 + 2$   
 $14 + 2 + 15 + 12$   
 $(14 + 2) + (15 + 12)$   
 $16 + 27$   
 $43$

## CHANGE THE ORDER , GROUP , AND SOLVE(SHOW YOUR WORK)

1.  $10 \times 4 \times 12 \times 20$   
 $4 \times 20 \times 10 \times 12$   
 $(4 \times 20) \times (10 \times 12)$   
 $80 \times 120$   
 $9600$

2.  $2 \times 15 \times 18 \times 60$   
 $18 \times 2 \times 15 \times 60$   
 $(18 \times 2) \times (15 \times 60)$   
 $36 \times 900$   
 $32400$

3.  $50 \times 5 \times 4 \times 10$   
 $50 \times 10 \times 4 \times 5$   
 $(50 \times 10) \times (4 \times 5)$   
 $500 \times 20$   
 $10000$

4.  $7 \times 8 \times 2 \times 11$   
 $2 \times 11 \times 8 \times 7$   
 $(2 \times 11) \times (8 \times 7)$   
 $22 \times 56$   
 $1232$

5.  $16 \times 30 \times 4 \times 3$   
 $30 \times 3 \times 4 \times 16$   
 $(30 \times 3) \times (4 \times 16)$   
 $90 \times 64$   
 $5760$

6.  $25 \times 15 \times 10 \times 5$   
 $15 \times 10 \times 25 \times 5$   
 $(15 \times 10) \times (25 \times 5)$   
 $150 \times 125$   
 $18750$