



Pattern Numbers





1. If 19 (36) 13 and 37 (81) 28, then what is value of A in 43 (A) 38.
- | | |
|--------|--------|
| (A) 49 | (B) 25 |
| (C) 34 | (D) 64 |



2. If 18 (9) 3 and 36 (30) 5, then what is value of A in 19 (A) 18.
- | | |
|--------|--------|
| (A) 33 | (B) 57 |
| (C) 75 | (D) 96 |



3. If 12 (20) 16 and 21 (35) 28, then what is value of A in 48 (80) A.
- | | |
|--------|--------|
| (A) 50 | (B) 56 |
| (C) 64 | (D) 72 |



4. If 27 (15) 33 and 41 (13) 53, then what is value of A in 26 (A) 35.
- | | |
|--------|--------|
| (A) 16 | (B) 13 |
| (C) 14 | (D) 11 |



5. If $1/4/3 = 254$ and $3/6/8 = 479$, then $5/2/7 =$?
- | | |
|---------|---------|
| (A) 416 | (B) 461 |
| (C) 368 | (D) 638 |



6. If 8 a 48, 12 a 120 and 15 a 195, then what is the value of 'A' in 19 a A ?
- (A) 323 (B) 347
(C) 360 (D) 312



7. If 21 (49) 14 and 159 (169) 146, then what is value of A in 56 (A) 44 ?
- | | |
|---------|---------|
| (A) 144 | (B) 121 |
| (C) 225 | (D) 256 |



8. If 15 (196) 29 and 16 (100) 6, then what is value of A in 31 (A) 48.
- | | |
|---------|---------|
| (A) 361 | (B) 256 |
| (C) 324 | (D) 289 |



9. If 7 (110) 4 and 19 (930) 12, then what is value of A in 16 (A) 9?
- | | |
|---------|---------|
| (A) 580 | (B) 600 |
| (C) 640 | (D) 700 |



10. If $436 = 7$, $783 = 2$ and $654 = 5$, then $896 = ?$
- | | |
|-------|-------|
| (A) 5 | (B) 8 |
| (C) 4 | (D) 6 |



11. If 26 (52) 8 and 48 (192) 16, then what is value of 'A' in A (175) 14 ?
- | | |
|--------|--------|
| (A) 50 | (B) 25 |
| (C) 35 | (D) 40 |



12. Some equations are solved on the basis of a certain system. Find the correct answer for the unsolved equation on the basis.

$5 + 7 + 2 = 725$, $6 + 9 + 0 = 906$, $8 + 4 + 3 = ?$

(A) 815

(B) 384

(C) 438

(D) 834



13. Some equations are solved on the basis of a certain system. Find the correct answer for the unsolved equation on the basis.

$$7 - 4 - 1 = 714, \quad 9 - 2 - 3 = 932$$

$$8 - 0 - 4 = ?$$

- (A) 804 (B) 840
(C) 408 (D) 480



14. If $1 + 4 = 9$, $2 + 8 = 18$, $3 + 6 = 15$ then $7 + 8 = ?$
- (A) 41 (B) 23
(C) 30 (D) 32



15. Some equation are solved on the basis of a certain system. Find the correct answer for the un-solved equation on the basis.

$$4 \times 5 = 42$$

$$5 \times 6 = 56$$

$$6 \times 7 = 72$$

$$7 \times 8 = ?$$

(A) 84

(B) 90

(C) 92

(D) 102



16. Some equations are solved on the basis of a certain system. Find the correct answer for the un solved equation on the basis.

$58 \times 12 = 4$, $37 \times 96 = 5$, $11 \times 20 = 2$, $42 \times 12 = ?$

- | | |
|-------|-------|
| (A) 2 | (B) 3 |
| (C) 4 | (D) 5 |



17. Some equations are solved on the basis of a certain system. Find the correct answer for the un solved equation on the basis.

$$5 \times 8 = 28, 3 \times 7 = 12, 8 \times 6 = 35, 13 \times 13 = ?$$

(A) 169

(B) 130

(C) 140

(D) 144



Direction (18–20) Some equation are solved on the basis of a certain system. Find the correct answer for the un-solved equation on the basis.

18. $2 \times 4 \times 6 = 4$; $9 \times 3 \times 7 = 13$;

$4 \times 7 \times 6 = 3$; $9 \times 7 \times 8 = ?$

(A) 10

(B) 09

(C) 08

(D) 07



19. $3 \times 5 \times 7 \times 2 = 24$, $2 \times 4 \times 6 \times 8 = 22$, $4 \times 4 \times 8$

$\times 9 = ?$

(A) 33

(B) 25

(C) 144

(D) 1152



20. If $7 \times 8 = 49$, $4 \times 4 = 12$ and $6 \times 4 = 18$, what will 9×6 be ?
- (A) 54 (B) 50
(C) 45 (D) None of these



21. Some equations are solved on the basis of a certain system. Find the correct answer for the unsolved equation on the basis.

$$5.3 = -7 ; 3.7 = -11 ; 7.11 = ?$$

- (A) -59 (B) 77
(C) -15 (D) 18



22. Some equations are solved on the basis of a certain system. Find the correct answer for the unsolved equation on the basis.

$$2 \times 3 \times 4 = 432,$$

$$5 \times 6 \times 7 = 765$$

$$7 \times 8 \times 9 = 987$$

$$2 \times 5 \times 7 = ?$$

(A) 572

(C) 725

(B) 752

(D) 257



23. If $2 \times 16 = 8$; $8 \times 8 = 1$; $6 \times 12 = 2$, then $12 \times 144 = ?$

(A) 11

(B) 12

(C) 16

(D) 24



24. Some equations are solved on the basis of a certain system. Find the correct answer for the unsolved equation on the basis.

If $10 - 3 = 12$, $12 - 4 = 13$, $14 - 5 = 14$, then
 $16 - 6 = ?$

- | | |
|--------|--------|
| (A) 10 | (B) 15 |
| (C) 16 | (D) 18 |



25. If $4 * 5 \% 3 = 8000$ and $2 * 3 \% 2 = 36$, then $4 * 3 \% 3 = ?$
- (A) 432 (B) 1728
(C) 36 (D) 144



26. If $3 @ 3 * 3 = 3$ and $48 @ 4 * 3 = 36$, then $91 @ 13 * 2 = ?$
- (A) 4 (B) 8
(C) 10 (D) 14



27. If $75 \$ 26 = 4$, $69 \$ 53 = 7$ then what is the value of $82 \$ 46 = ?$
- (A) 62 (B) 56
(C) 0 (D) 91



28. If $23 @ 5 = 56$; $6 @ 7 = 26$; $5 @ 2 = 14$; then what is the value of $7 @ 5 = ?$
- (A) 26 (B) 24
(C) 19 (D) 52



29. If $3\% 8 \# 4 = 6$ and $9\% 4 \# 3 = 12$, then 12%

$6 \# 24 = ?$

(A) 4

(B) 3

(C) 5

(D) 6



30. If $4 \times 9 \times 3$ and $5 \times 3 \times 1 = 3$, then $9 \times 9 \times 7 = ?$
- (A) 5 (B) 8
(C) 7 (D) 9



31. If $(2)*4 = 2$ and $(4)*4 = 16$, then what is the value of A in $(6)*A = 18$
- (A) 12 (B) 14
(C) 16 (D) 20



32. If $(3)^2 @ 1 * 7 = 98$ and $(4)^2 @ 2 * 16 = 178$,
then $(5)^2 @ 3 * 9 = ?$
- (A) 218 (B) 262
(C) 253 (D) 259



33. If $5 \# 9 @ 7 = 52$ and $3 \# 9 @ 2 = 29$, then $7 \# 6 @ 9 = ?$
- (A) 51 (B) 56
(C) 43 (D) 28



34. If $6 * 9 - 4 = 58$ and $3 * 9 - 7 = 34$. then in the expression $A * 4 - 9 = 91$, what is the value of 'A' ?

- | | |
|----------|----------|
| (A) 6.5 | (B) 17.5 |
| (C) 20.5 | (D) 30.5 |



35. If $4 * 7 * 2 = 361$ and $5 * 9 * 1 = 480$, then

$2 * 1 * 3 = ?$

(A) 312

(B) 324

(C) 210

(D) 102



36. If $3 \# 3 * 9 = 324$ and $9 \# 8 * 7 = 576$, then 5

$\# 6 * 3 = ?$

(A) 218

(B) 196

(C) 188

(D) 200



37. If $13 \# 9 = 94$ and $18 \# 7 = 100$, then $24 \# 6 = ?$
- (A) 121 (B) 113
(C) 148 (D) 115



38. If $6 @ 4 @ 7 = 101$ and $2 @ 5 @ 11 = 150$
then what is the value of A in $A @ 8 @ 9 = 289$

(A) 5

(B) 8

(C) 12

(D) 17



39. If $19 \$ 7 = 312$ and $23 \$ 9 = 448$, then $31 \$ 11 = ?$

(A) 231

(B) 441

(C) 641

(D) 840



40. If $9 * 2 * 5 = 45$ and $1 * 4 * 8 = 16$, then $1 * 6 * 3 = ?$

(A) 9

(B) 12

(C) 10

(D) 18



41. If $9^2 A 4^2 B 3^2 = 56$ and $7^2 A 2^2 B 1^2 = 44$,
then $11^2 A 5^2 B 7^2 = ?$
- (A) 29 (B) 32
(C) 47 (D) 24



42. If $18 \times 12 = 206$ and $19 \times 22 = 408$, then $23 \times 36 = ?$
- (A) 878 (B) 818
(C) 794 (D) 776



43. If $19 \# 13 = 3$; $25 \# 3 = 11$; $36 \# 10 = 13$; then what is the value of $7 \# 3 = ?$
- (A) 878 (B) 818
(C) 794 (D) 776



44. If $5@1 = 60$; $12@8 = 200$; $16@2 = 180$; then what is the value of $16@10 = ?$
- (A) 32 (B) 11
(C) 9 (D) 260



45. If $17 @ 1 = 8$; $9 @ 1 = 4$; $6 @ 4 = 1$; then what is the value of $8 @ 2 = ?$
- (A) 3 (B) 26
(C) 23 (D) 47



46. If $9 @ 3 = 12$; $15 @ 4 = 22$; $16 @ 14 = 4$; then what is the value of $6 @ 2 = ?$
- (A) 26 (B) 1
(C) 30 (D) 8



47. If $5 \$ 125 = 25$, $12 \$ 48 = 4$ then what is value of $4 \$ 24 = ?$

(A) 2

(B) 4

(C) 6

(D) 1



48. If $11 \$ 25 = 18$, $12 \$ 20 = 16$ then what is value of $4 \$ 50 = ?$
- (A) 42 (B) 17
(C) 27 (D) 37



49. If $45 \% 11 = 7$, $59 \% 34 = 7$ then what is value of $55 \% 4 = ?$
- (A) 6 (B) 40
(C) 45 (D) 50



50. If $26 \# 14 = 80$; $5 \# 3 = 16$; $6 \# 5 = 22$; then what is the value of $14 \# 5 = ?$
- (A) 39 (B) 38
(C) 146 (D) 333



ANSWERKEY

- | | | | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1. (b) | 2. (b) | 3. (c) | 4. (a) | 5. (d) | 6. (a) | 7. (a) | 8. (d) | 9. (b) | 10. (a) |
| 11. (a) | 12. (c) | 13. (b) | 14. (b) | 15. (b) | 16. (b) | 17. (d) | 18. (a) | 19. (a) | 20. (c) |
| 21. (a) | 22. (b) | 23. (b) | 24. (b) | 25. (b) | 26. (d) | 27. (c) | 28. (b) | 29. (b) | 30. (a) |
| 31. (a) | 32. (b) | 33. (a) | 34. (c) | 35. (d) | 36. (b) | 37. (b) | 38. (c) | 39. (d) | 40. (a) |
| 41. (c) | 42. (b) | 43. (b) | 44. (d) | 45. (a) | 46. (d) | 47. (c) | 48. (c) | 49. (a) | 50. (b) |