

Find the odd man out.

1. 3, 5, 11, 14, 17, 21

A. 21 B. 17

C. 14 D. 3

Answer: Option C

Explanation: Each of the numbers except 14 is an odd number.

The number '14' is the only EVEN number.

2. 8, 27, 64, 100, 125, 216, 343

A. 27 B. 100

C. 125 D. 343

Answer: Option B

Explanation: The pattern is $2^3, 3^3, 4^3, 5^3, 6^3, 7^3$. But, 100 is not a perfect cube.

3. 10, 25, 45, 54, 60, 75, 80

A. 10 B. 45

C. 54 D. 75

Answer: Option C

Explanation: Each of the numbers except 54 is multiple of 5.

4. 396, 462, 572, 427, 671, 264

A. 396 B. 427

C. 671 D. 264

Answer: Option B

Explanation: In each number except 427, the middle digit is the sum of other two.

5. 6, 9, 15, 21, 24, 28, 30

A. 28 B. 21

C. 24 D. 30

Answer: Option A

Explanation: Each of the numbers except 28, is a

multiple of 3.

6. 1, 4, 9, 16, 23, 25, 36

A. 9 B. 23

C. 25 D. 36

Answer: Option B

Explanation: Each of the numbers except 23, is perfect square.

7. 1, 4, 9, 16, 20, 36, 49

A. 1 B. 9

C. 20 D. 49

Answer: Option C

Explanation: The pattern is $1^2, 2^2, 3^2, 4^2, 5^2, 6^2, 7^2$. But, instead of 5^2 , it is 20 which to be turned out.

8. 2, 5, 10, 17, 26, 37, 50, 64

A. 50 B. 26

C. 37 D. 64

Answer: Option D

Explanation: $(1*1)+1, (2*2)+1, (3*3)+1, (4*4)+1, (5*5)+1, (6*6)+1, (7*7)+1, (8*8)+1$

But, 64 is out of pattern.

9. 10, 14, 16, 18, 21, 24, 26

A. 26 B. 24

C. 21 D. 18

Answer: Option C

Explanation: Each of the numbers except 21 is an even number.

10. 16, 25, 36, 72, 144, 196, 225

A. 36 B. 72

C. 196 D. 225

Answer: Option B

Explanation: Each of the numbers except 72 is a perfect square.

11. 331, 482, 551, 263, 383, 362, 284

- A. 263 B. 383
C. 331 D. 551

Answer: Option B

Explanation: In each number except 383, the product of first and third digits is the middle one.

12. 835, 734, 642, 751, 853, 981, 532

- A. 751 B. 853
C. 981 D. 532

Answer: Option A

Explanation: In each number except 751, the difference of third and first digit is the middle one.

13. 41, 43, 47, 53, 61, 71, 73, 81

- A. 61 B. 71
C. 73 D. 81

Answer: Option D

Explanation: Each of the numbers except 81 is a prime number.

14. 3, 5, 7, 12, 17, 19

- A. 19 B. 17
C. 5 D. 12

Answer: Option D

Explanation: Each of the numbers is a prime number except 12.

Find out the wrong number in the given sequence of numbers.

1. 582, 605, 588, 611, 634, 617, 600

- A. 634 B. 611
C. 605 D. 600

Answer: Option A

Explanation: Alternatively 23 is added and 17 is subtracted from the terms. So, 634 is wrong.

2. 22, 33, 66, 99, 121, 279, 594

- A. 33 B. 121
C. 279 D. 594

Answer: Option C

Explanation: Each of the number except 279 is a multiple of 11.

3. 8, 13, 21, 32, 47, 63, 83

- A. 47 B. 63
C. 32 D. 83

Answer: Option A

Explanation: Go on adding 5, 8, 11, 14, 17, 20.

So, the number 47 is wrong and must be replaced by 46.

4. 1, 8, 27, 64, 124, 216, 343

- A. 8 B. 27
C. 64 D. 124

Answer: Option D

Explanation: The numbers are $1^3, 2^3, 3^3, 4^3$ etc. So, 124 is wrong; it must have been 5^3 i.e., 125.

5. 1, 2, 6, 15, 31, 56, 91

- A. 31 B. 91
C. 56 D. 15

Answer: Option B

Explanation: $1, 1 + 1^2 = 2, 2 + 2^2 = 6, 6 + 3^2 = 15, 15 + 4^2 = 31, 31 + 5^2 = 56, 56 + 6^2 = 92$

Last number of given series must be 92 not 91.

6. 52, 51, 48, 43, 34, 27, 16

A. 27 B. 34

C. 43 D. 48

Answer: Option B

Explanation: Subtract 1, 3, 5, 7, 9, 11 from successive numbers.

So, 34 is wrong.

7. 4, 6, 8, 9, 10, 11, 12

A. 10 B. 11

C. 12 D. 9

Answer: Option B

Explanation: Each number is a composite number except 11.

8. 105, 85, 60, 30, 0, -45, -90

A. 0 B. 85

C. -45 D. 60

Answer: Option A

Explanation: Subtract 20, 25, 30, 35, 40, 45 from successive numbers.

So, 0 is wrong.

9. 5, 16, 6, 16, 7, 16, 9

A. 9 B. 7

C. 6 D. None of these

Answer: Option A

Explanation: Terms at odd places are 5, 6, 7, 8 etc. and each term at even place is 16.

So, 9 is wrong.

10. 125, 127, 130, 135, 142, 153, 165

A. 130 B. 142

C. 153 D. 165

Answer: Option D

Explanation: Prime numbers 2, 3, 5, 7, 11, 13 are to be added successively.

So, 165 is wrong.

11. 46080, 3840, 384, 48, 24, 2, 1

A. 1 B. 2

C. 24 D. 384

Answer: Option C

Explanation: The terms are successively divided by 12, 10, 8, 6, ...etc.

So, 24 is wrong, it should be 8 ($48/6 = 8$).

12. 6, 13, 18, 25, 30, 37, 40

A. 25 B. 30

C. 37 D. 40

Answer: Option D

Explanation: The differences between two successive terms from the beginning are 7, 5, 7, 5, 7, 5.

So, 40 is wrong.

13. 36, 54, 18, 27, 9, 18.5, 4.5

A. 4.5 B. 18.5

C. 54 D. 18

Answer: Option B

Explanation: The terms are alternatively multiplied by 1.5 and divided by 3. However, 18.5 does not satisfy it.

14. 56, 72, 90, 110, 132, 150

A. 72 B. 110

C. 132 D. 150

Answer: Option D

Explanation: The numbers are 7×8 , 8×9 , 9×10 , 10×11 , 11×12 , 12×13 .

So, 150 is wrong.

15. 25, 36, 49, 81, 121, 169, 225

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| A. 36 | B. 49 |
| C. 121 | D. 169 |

Answer: Option A

Explanation: The numbers are squares of odd natural numbers, starting from 5 up to 15.

So, 36 is wrong.

1. 7, 8, 18, 57, 228, 1165, 6996

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| A. 8 | B. 18 |
| C. 57 | D. 228 |
| E. 1165 | |

Answer: Option D

Explanation: Let the given numbers be A, B, C, D, E, F, G.

Then, A, $A \times 1 + 1$, $B \times 2 + 2$, $C \times 3 + 3$, $D \times 4 + 4$, $E \times 5 + 5$, $F \times 6 + 6$ are the required numbers.

Clearly, 228 is wrong.

2. 1, 1, 2, 6, 24, 96, 720

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| A. 720 | B. 96 |
| C. 24 | D. 6 |
| E. 2 | |

Answer: Option B

Explanation: Go on multiplying with 1, 2, 3, 4, 5, 6 to get next number.

So, 96 is wrong.

3. 196, 169, 144, 121, 100, 80, 64

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| A. 169 | B. 144 |
| C. 121 | D. 100 |
| E. 80 | |

Answer: Option E

Explanation: Numbers must be $(14)^2$, $(13)^2$, $(12)^2$, $(11)^2$, $(10)^2$, $(9)^2$, $(8)^2$.

So, 80 is wrong.

4. 445, 221, 109, 46, 25, 11, 4

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| A. 221 | B. 109 |
| C. 46 | D. 25 |
| E. 11 | |

Answer: Option C

Explanation: Go on subtracting 3 and dividing the result by 2 to obtain the next number.

Clearly, 46 is wrong.

5. 190, 166, 145, 128, 112, 100, 91

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|---------------|---------------|
| A. 100 | B. 166 |
| C. 145 | D. 128 |
| E. 112 | |

Answer: Option D

Explanation: Go on subtracting 24, 21, 18, 15, 12, 9 from the numbers to get the next number.

$$190 - 24 = 166$$

$$166 - 21 = 145$$

$$145 - 18 = 127 \text{ [Here, 128 is placed instead of 127]}$$

$$127 - 15 = 112$$

$$112 - 12 = 100 \dots \text{ and so on.}$$

Therefore, 128 is wrong.

6. 19, 26, 33, 46, 59, 74, 91

- A. 26 B. 33
 C. 46 D. 59
 E. 74

Answer: Option B**Explanation:** Go on adding 7, 9, 11, 13, 15, 17 respectively to obtain the next number.

So, 33 is wrong. It must be 35

7. 1, 3, 10, 21, 64, 129, 356, 777

- A. 10 B. 21
 C. 64 D. 129
 E. 356

Answer: Option E**Explanation:** A x 2 + 1, B x 3 + 1, C x 2 + 1, D x 3 + 1 and so on.

So, 356 is wrong.

8. 6, 12, 48, 100, 384, 768, 3072

- A. 768 B. 384
 C. 100 D. 48
 E. 12

Answer: Option C**Explanation:** Each even term of the series is obtained by multiplying the previous term by 2.

$$2^{\text{nd}} \text{ term} = (1^{\text{st}} \text{ term}) \times 2 = 6 \times 2 = 12$$

$$4^{\text{th}} \text{ term} = (3^{\text{rd}} \text{ term}) \times 2 = 48 \times 2 = 96.$$

$$6^{\text{th}} \text{ term} = (5^{\text{th}} \text{ term}) \times 2 = 384 \times 2 = 768.$$

∴ 4th term should be 96 instead of 100.

9. 40960, 10240, 2560, 640, 200, 40, 10

- A. 640 B. 40
 C. 200 D. 2560
 E. 10240

Answer: Option C**Explanation:** Go on dividing by 4 to get the next number.

So, 200 is wrong.

10. 3, 7, 15, 39, 63, 127, 255, 511

- A. 7 B. 15
 C. 39 D. 63
 E. 127

Answer: Option C**Explanation:** Go on multiplying 2 and adding 1 to get the next number.

So, 39 is wrong.

11. 64, 71, 80, 91, 104, 119, 135, 155

- A. 71 B. 80
 C. 104 D. 119
 E. 135

Answer: Option E**Explanation:** Go on adding 7, 9, 11, 13, 15, 17, 19 respectively to obtain the next number.

So, 135 is wrong.

12. 15, 16, 34, 105, 424, 2124, 12576

- A. 16 B. 34
 C. 105 D. 424
 E. 2124

Answer: Option E

Explanation: 2^{nd} term = $(1^{\text{st}} \text{ term}) \times 1 + 1 = 15 \times 1 + 1 = 16$.

3^{rd} term = $(2^{\text{nd}} \text{ term}) \times 2 + 2 = 16 \times 2 + 2 = 34$.

4^{th} term = $(3^{\text{th}} \text{ term}) \times 3 + 3 = 34 \times 3 + 3 = 105$.

5^{th} term = $(4^{\text{th}} \text{ term}) \times 4 + 4 = 105 \times 4 + 4 = 424$

6^{th} term = $(5^{\text{th}} \text{ term}) \times 5 + 5 = 424 \times 5 + 5 = 2125$

\therefore 6^{th} term should 2125 instead of 2124.

13. 10, 26, 74, 218, 654, 1946, 5834

A. 26 B. 74

C. 218 D. 654

E. 1946

Answer: Option D

Explanation: 2^{nd} term = $(1^{\text{st}} \text{ term}) \times 3 - 4 = 10 \times 3 - 4 = 26$.

3^{rd} term = $(2^{\text{nd}} \text{ term}) \times 3 - 4 = 26 \times 3 - 4 = 74$.

4^{th} term = $(3^{\text{th}} \text{ term}) \times 3 - 4 = 74 \times 3 - 4 = 218$.

5^{th} term = $(4^{\text{th}} \text{ term}) \times 3 - 4 = 218 \times 3 - 4 = 650$.

\therefore 5^{th} term must be 650 instead of 654.

14. 2880, 480, 92, 24, 8, 4, 4

A. 480 B. 92

C. 24 D. 8

E. 4

Answer: Option B

Explanation: Go on dividing by 6, 5, 4, 3, 2, 1 respectively to obtain the next number.

Clearly, 92 is wrong.

15. 3, 7, 15, 27, 63, 127, 255

A. 7 B. 15

C. 27 D. 63

E. 127

Answer: Option C

Explanation: Go on multiplying the number by 2 and adding 1 to it to get the next number.

So, 27 is wrong.