

Analogy questions with answers

15 exam-shaped questions with full worked solutions.

For IBPS · SBI · RRB · SSC reasoning.

Free, share it forward. Every question in this set was generated and verified by the Deduce engine — the same one behind the free daily puzzle round at deducepuzzles.com.

The questions

Work them on paper first. Full solutions start after question 15 — the numbering matches.

QUESTION 1

13 : 2197 :: 2 : ?

Work out how the first number becomes the second, then apply the same rule to the third.

- A. 5
 - B. 9
 - C. 7
 - D. 8
 - E. 6
-

QUESTION 2

18 : 324 :: 12 : ?

Work out how the first number becomes the second, then apply the same rule to the third.

- A. 144
 - B. 145
 - C. 156
 - D. 143
 - E. 132
-

QUESTION 3

13 : 170 :: 10 : ?

Work out how the first number becomes the second, then apply the same rule to the third.

- A. 100
 - B. 101
 - C. 120
 - D. 110
 - E. 990
-

QUESTION 4

14 : 195 :: 7 : ?

Work out how the first number becomes the second, then apply the same rule to the third.

- A. 49
 - B. 35
 - C. 42
 - D. 48
 - E. 28
-

QUESTION 5**9 : 80 :: 7 : ?**

Work out how the first number becomes the second, then apply the same rule to the third.

- A. 42
 - B. 49
 - C. 56
 - D. 48
 - E. 50
-

QUESTION 6**19 : 23 :: 13 : ?**

Work out how the first number becomes the second, then apply the same rule to the third.

- A. 19
 - B. 17
 - C. 20
 - D. 21
 - E. 18
-

QUESTION 7**19 : 361 :: 13 : ?**

Work out how the first number becomes the second, then apply the same rule to the third.

- A. 130
 - B. 169
 - C. 156
 - D. 168
 - E. 143
-

QUESTION 8**16 : 256 :: 19 : ?**

Work out how the first number becomes the second, then apply the same rule to the third.

- A. 361
 - B. 342
 - C. 360
 - D. 228
 - E. 209
-

QUESTION 9**13 : 168 :: 17 : ?**

Work out how the first number becomes the second, then apply the same rule to the third.

- A. 290
 - B. 306
 - C. 288
 - D. 289
 - E. 272
-

QUESTION 10**12 : 143 :: 14 : ?**

Work out how the first number becomes the second, then apply the same rule to the third.

- A. 168
 - B. 195
 - C. 197
 - D. 196
 - E. 182
-

QUESTION 11**19 : 380 :: 7 : ?**

Work out how the first number becomes the second, then apply the same rule to the third.

- A. 70
 - B. 56
 - C. 49
 - D. 50
 - E. 63
-

QUESTION 12**9 : 11 :: 3 : ?**

Work out how the first number becomes the second, then apply the same rule to the third.

- A. 7
 - B. 8
 - C. 5
 - D. 6
 - E. 4
-

QUESTION 13**19 : 361 :: 15 : ?**

Work out how the first number becomes the second, then apply the same rule to the third.

- A. 165
 - B. 225
 - C. 180
 - D. 224
 - E. 210
-

QUESTION 14**7 : 343 :: 2 : ?**

Work out how the first number becomes the second, then apply the same rule to the third.

- A. 9
 - B. 8
 - C. 5
 - D. 7
 - E. 6
-

QUESTION 15

13 : 168 :: 4 : ?

Work out how the first number becomes the second, then apply the same rule to the third.

- A. 16
 - B. 15
 - C. 17
 - D. 18
 - E. 14
-

Answers and worked solutions

Each walkthrough is the engine's own elimination order, step for step — not a reconstruction written after the fact.

SOLUTION 1

Answer: **8**

1. 13 becomes 2197 when it is cubed.
 2. No other standard rule turns 13 into 2197 and gives a different result for 2, so the relation is settled.
 3. Applying it to 2: the answer is 8.
-

SOLUTION 2

Answer: **144**

1. 18 becomes 324 when it is squared.
 2. No other standard rule turns 18 into 324 and gives a different result for 12, so the relation is settled.
 3. Applying it to 12: the answer is 144.
-

SOLUTION 3

Answer: **101**

1. 13 becomes 170 when it is squared, then 1 added.
 2. No other standard rule turns 13 into 170 and gives a different result for 10, so the relation is settled.
 3. Applying it to 10: the answer is 101.
-

SOLUTION 4

Answer: **48**

1. 14 becomes 195 when it is squared, then 1 subtracted.
 2. No other standard rule turns 14 into 195 and gives a different result for 7, so the relation is settled.
 3. Applying it to 7: the answer is 48.
-

SOLUTION 5

Answer: **48**

1. 9 becomes 80 when it is squared, then 1 subtracted.
 2. No other standard rule turns 9 into 80 and gives a different result for 7, so the relation is settled.
 3. Applying it to 7: the answer is 48.
-

SOLUTION 6

Answer: **17**

1. 19 becomes 23 when it is replaced by the next prime number.
 2. No other standard rule turns 19 into 23 and gives a different result for 13, so the relation is settled.
 3. Applying it to 13: the answer is 17.
-

SOLUTION 7

Answer: **169**

1. 19 becomes 361 when it is squared.
2. No other standard rule turns 19 into 361 and gives a different result for 13, so the relation is settled.
3. Applying it to 13: the answer is 169.

SOLUTION 8

Answer: **361**

1. 16 becomes 256 when it is squared.
 2. No other standard rule turns 16 into 256 and gives a different result for 19, so the relation is settled.
 3. Applying it to 19: the answer is 361.
-

SOLUTION 9

Answer: **288**

1. 13 becomes 168 when it is squared, then 1 subtracted.
 2. No other standard rule turns 13 into 168 and gives a different result for 17, so the relation is settled.
 3. Applying it to 17: the answer is 288.
-

SOLUTION 10

Answer: **195**

1. 12 becomes 143 when it is squared, then 1 subtracted.
 2. No other standard rule turns 12 into 143 and gives a different result for 14, so the relation is settled.
 3. Applying it to 14: the answer is 195.
-

SOLUTION 11

Answer: **56**

1. 19 becomes 380 when it is squared, then the number itself added.
 2. No other standard rule turns 19 into 380 and gives a different result for 7, so the relation is settled.
 3. Applying it to 7: the answer is 56.
-

SOLUTION 12

Answer: **5**

1. 9 becomes 11 when it is replaced by the next prime number.
 2. No other standard rule turns 9 into 11 and gives a different result for 3, so the relation is settled.
 3. Applying it to 3: the answer is 5.
-

SOLUTION 13

Answer: **225**

1. 19 becomes 361 when it is squared.
 2. No other standard rule turns 19 into 361 and gives a different result for 15, so the relation is settled.
 3. Applying it to 15: the answer is 225.
-

SOLUTION 14

Answer: **8**

1. 7 becomes 343 when it is cubed.
 2. No other standard rule turns 7 into 343 and gives a different result for 2, so the relation is settled.
 3. Applying it to 2: the answer is 8.
-

SOLUTION 15

Answer: **15**

1. 13 becomes 168 when it is squared, then 1 subtracted.
2. No other standard rule turns 13 into 168 and gives a different result for 4, so the relation is settled.
3. Applying it to 4: the answer is 15.

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