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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. | Look at this series: 2, 1, (1/2), (1/4), ... What number should come next?   |  |  | | --- | --- | | [A.](javascript: void 0;) | (1/3) | | [B.](javascript: void 0;) | (1/8) | | [C.](javascript: void 0;) | (2/8) | | [D.](javascript: void 0;) | (1/16) | |
| Answer: Option B |

Explanation:

This is a simple division series; each number is one-half of the previous number.

In other terms to say, the number is divided by 2 successively to get the next result.

4/2 = 2

2/2 = 1

1/2 = 1/2

(1/2)/2 = 1/4

(1/4)/2 = 1/8 and so on.

Look carefully for the pattern, and then choose which pair of numbers comes next.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. | 28 25 5 21 18 5 14   |  |  | | --- | --- | | [A.](javascript: void 0;) | 11 5 | | [B.](javascript: void 0;) | 10 7 | | [C.](javascript: void 0;) | 11 8 | | [D.](javascript: void 0;) | 5 10 | | [E.](javascript: void 0;) | 10 5 | |
| Answer: Option A |

Explanation:

This is an alternating subtraction series with the interpolation of a random number, 5, as every third number. In the subtraction series, 3 is subtracted, then 4, then 3, and so on.

Look carefully for the pattern, and then choose which pair of numbers comes next.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. | 42 40 38 35 33 31 28   |  |  | | --- | --- | | [A.](javascript: void 0;) | 25 22 | | [B.](javascript: void 0;) | 26 23 | | [C.](javascript: void 0;) | 26 24 | | [D.](javascript: void 0;) | 25 23 | | [E.](javascript: void 0;) | 26 22 | |
| Answer: Option C |

This is an alternating subtraction series in which 2 is subtracted twice, then 3 is subtracted once, then 2 is subtracted twice, and so on.

First, you will be given a list of three "nonsense" words and their English word meanings. The question(s) that follow will ask you to reverse the process and translate an English word into the artificial language.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. | Here are some words translated from an artificial language. *gorblflur* means fan belt *pixngorbl* means ceiling fan *arthtusl* means tile roof Which word could mean "ceiling tile"?   |  |  | | --- | --- | | [A.](javascript: void 0;) | gorbltusl | | [B.](javascript: void 0;) | flurgorbl | | [C.](javascript: void 0;) | arthflur | | [D.](javascript: void 0;) | pixnarth | |
| Answer: Option D  Explanation:  *Gorbl* means fan; *flur* means belt; *pixn* means ceiling; *arth* means tile; and *tusl* means roof. Therefore, *pixnarth* is the correct choice. |

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| 1. | Here are some words translated from an artificial language. *gemolinea* means fair warning *gerimitu* means report card *gilageri* means weather report Which word could mean "fair weather"?   |  |  | | --- | --- | | [A.](javascript: void 0;) | gemogila | | [B.](javascript: void 0;) | gerigeme | | [C.](javascript: void 0;) | gemomitu | | [D.](javascript: void 0;) | gerimita | |
| Answer: Option A  Explanation:  Gemo means fair; linea means warning; geri means report;mitumeans card; and gilameans weather. Thus, gemogila is the correct choice. |

Each problem consists of three statements. Based on the first two statements, the third statement may be true, false, or uncertain.

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| --- | --- | --- | --- | --- | --- | --- | --- |
| 1. | Tanya is older than Eric. Cliff is older than Tanya. Eric is older than Cliff. If the first two statements are true, the third statement is   |  |  | | --- | --- | | [A.](javascript: void 0;) | true | | [B.](javascript: void 0;) | false | | [C.](javascript: void 0;) | uncertain | |
| Answer: Option B  Explanation:  Because the first two statements are true, Eric is the youngest of the three, so the third statement must be false. |

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| 2. | The Shop and Save Grocery is south of Greenwood Pharmacy. Rebecca's house is northeast of Greenwood Pharmacy. Rebecca's house is west of the Shop and Save Grocery. If the first two statements are true, the third statement is   |  |  | | --- | --- | | [A.](javascript: void 0;) | true | | [B.](javascript: void 0;) | false | | [C.](javascript: void 0;) | uncertain | |
| Answer: Option B  Explanation:  Because the first two statements are true, Rebecca's house is also northeast of the Shop and Save Grocery, which means that the third statement is false. |

Each problem consists of three statements. Based on the first two statements, the third statement may be true, false, or uncertain.

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| --- | --- | --- | --- | --- | --- | --- | --- |
| 1. | All Lamels are Signots with buttons. No yellow Signots have buttons. No Lamels are yellow. If the first two statements are true, the third statement is   |  |  | | --- | --- | | [A.](javascript: void 0;) | true | | [B.](javascript: void 0;) | false | | [C.](javascript: void 0;) | uncertain | |
| Answer: Option A  Explanation:  We know that there are Signots with buttons, or Lamels, and that there are yellow Signots, which have no buttons. Therefore, Lamels do not have buttons and cannot be yellow. |

In these series, you will be looking at both the letter pattern and the number pattern. Fill the blank in the middle of the series or end of the series.

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| 1. | SCD, TEF, UGH, \_\_\_\_, WKL   |  |  | | --- | --- | | [A.](javascript: void 0;) | CMN | | [B.](javascript: void 0;) | UJI | | [C.](javascript: void 0;) | VIJ | | [D.](javascript: void 0;) | IJT | |
| Answer: Option C  Explanation:  There are two alphabetical series here. The first series is with the first letters only: STUVW. The second series involves the remaining letters: CD, EF, GH, IJ, KL. |