CogAT
5th Grade

Sample

Test

Verbal Battery

1. The first pair of words are related in a certain way. Choose a word that completes the second pair of words so that they are related in the same way.

   persuade → convinced : heal →

   A. medicine
   B. cured
   C. agent
   D. hospital
   E. doctor

2. Choose the words that best complete the sentence.

   "When you go on your field trip, be careful not to fall into the _____!"
   Joey's mother _____ him.

   A. gorge .. warned
   B. hill .. reminded
   C. creek .. anxious
   D. river ..congratulated
   E. gorge .. cautiously

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3. Choose the word the best fits with group.

    A. direction
    B. horizon
    C. verbal
    D. diagonal
    E. fast

4. The first pair of words are related in a certain way. Choose a word that completes the second pair of words so that they are related in the same way.

Tuesday → Wednesday : March →

    A. thursday
    B. april
    C. august
    D. sunday
    E. february

Quantitative Battery

1. Choose the number that completes the third pair so that it demonstrates the same relationship as the first two pairs.

[28 → 4]   [21 → 3]   [35 → ?]

    A. 31
    B. 30
    C. 7
    D. 5
    E. 3

2. Solve.

25 = ? ÷ 5

A. 250
B. 125
C. 100
**D.** 75
E. 25

3. What is the next number in the series?

2   14   6   18   10   22   ?

A. 10
B. 14
C. 16
D. 18
E. 20

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Non-Verbal Battery

1. Choose the shape that completes the bottom pair so it shares the same relationship as the top pair.

A.

B.

C.

D.

E.
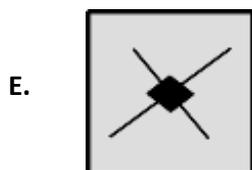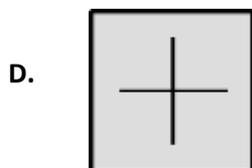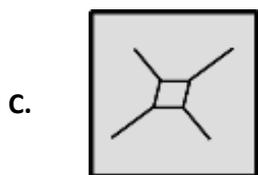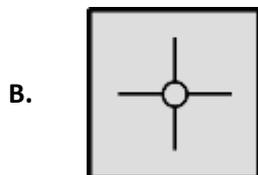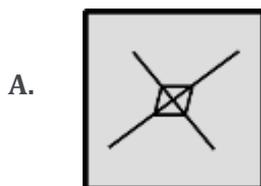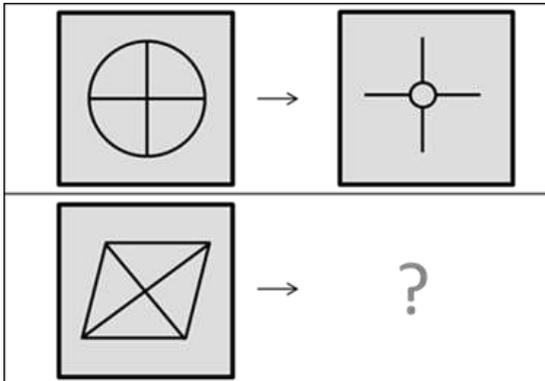
2. The given shapes have a certain pattern. Choose the answer choice that follows the same pattern.

A.

B.

C.

D.

E.
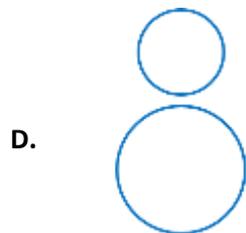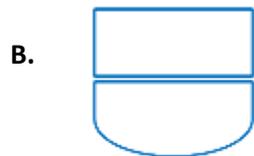
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3. Look at how a square piece of paper is folded and where holes are punched in it. Then you must figure out how the paper will look when it is completely unfolded.
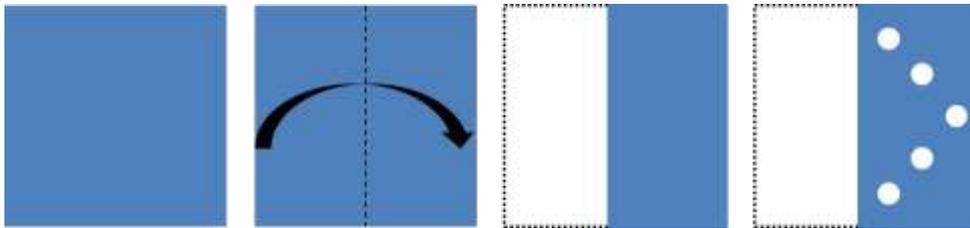
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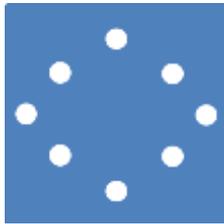
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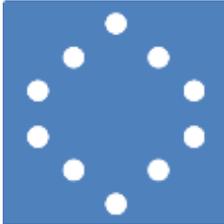
C.
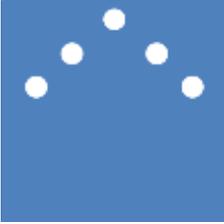
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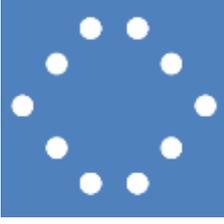
E.
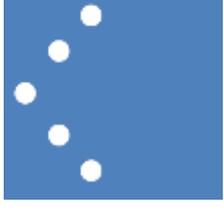
Solutions and Explanations

Verbal

1. **The correct answer is: cured.**

   To persuade is to make someone convinced, in the same way that to heal is to make someone cured.

2. The correct answer is **gorge .. warned**.
   A 'gorge' is a deep ditch or canyon, so it would make sense for a person to fall into one, and for his or her mother to warn them to be careful.

   When we look at the second pair, we can immediately see that it would not be possible for Joey to fall into a hill, which is a higher place, so we can eliminate this answer.
   In the third pair the word 'creek' could fit well in the first sentence, but the word 'anxious' does not fit in the second sentence, which calls for a verb.
   In the fourth pair, the word 'river' could be a good match, but the word 'congratulated' does not fit, because it means to compliment someone.
   In the last pair, the word 'gorge' is again fitting, but the conjugation of the second word is incorrect, and would need to read 'cautioned' in order to fit the sentence.

   Therefore, the only correct answer is **gorge .. warned**.

3. The correct answer is **diagonal**.

   These are all adjectives describing the way an object is **positioned**.

4. The correct answer is **April**.
   Tuesday comes immediately before Wednesday, as March comes
   immediately before **April**.

Quantitative

1. **The correct answer is 5**.

Look at the numbers in the first pair and try to find the rule they follow.
How do we get from 28 to 4?
We see that if we divide the first number by 7, we get the second number.
28 ÷ 7 = 4.

Does this rule work for the second pair, as well?
When we divide 21 by 7, we get 3.
21 ÷ 7 = 3.

The rule "divide the first number by 7 to get the second" works in both pairs,
so in the next pair we should also divide by 7:
35 ÷ 7 = 5.

Therefore, 5 is the correct answer.

2. **The correct answer is 125**.

We are asked to solve for the '?'.

The first thing to notice when solving this type of question is that
both sides of the equation must be equal.
What number divided by 5 equals 25?
To solve it, we need to reverse the operation and multiply 25 by 5:
25 × 5 = 125.

This means that ? = 125.

3. **The correct answer is 14.**

In this series, the pattern is as follows: first 12 is added, then 8 is subtracted,
then 12 is added, then 8 is subtracted, and so on.

The pattern is: +12, -8, +12, -8, ...

The last two numbers in this series are 10 and 22. 22 is bigger than 10 by 12,
so the next number in the series should be smaller than 22 by 8.

22 - 8 = 14.

Alternatively, we can look at the pattern as the combination of two separate
patterns that alternate. One pattern (the odd terms) is a series of numbers
that increase by 4, and the other pattern (the even terms) is another series
that increases by 4.

The pattern is: 2 14 6 18 10 22.

We are missing the seventh number which is an odd term, therefore it should
be bigger than the last odd term (the fifth number) by 4.
The fifth number is 10, so:
10 + 4 = 14.

Therefore, 14 is the correct answer.

Non-verbal

1. **The correct answer is 3.**

Look closely at the top row from left to right:
In the left frame there is a circle with a vertical and a horizontal line inside.
In the next frame (on the right), the circle shrinks and, in the
center, overlaps the lines.

The same pattern should occur in the bottom row:
In the left frame, there is a diamond with two diagonal lines. In the next
frame, the diamond should shrink and overlap the diagonal lines in the
center of the frame.

Answer choice 1 is incorrect as the diamond is transparent and the lines
can be seen.
Answer choice 2 is incorrect since the lines are no longer diagonal and the
shape in the middle is a circle instead of a diamond.
Answer choice 4 is incorrect since the lines are not diagonal and there is no
shape in the center.
Answer choices 5 is incorrect as it contains a black (not grey) diamond.

We are left with the 3rd choice, which is the only correct answer.

2. **The correct answer is 1.**

All three figures in this question contain shapes divided in half.
The only answer choice which follows this rule is the 1st choice.
Therefore, the 1st choice is the correct answer.

3. **The correct answer is 4.**

The square paper was first folded in half lengthwise and then five holes were cut out of the folded paper.

Since the paper was folded in half once, the holes were cut through two layers of paper.

Therefore, when the paper is unfolded it will have ten holes: **5 x 2 = 10.** Answer choices 3 and 5 only have five holes each, so they can be eliminated.

Since the paper was folded lengthwise down the middle the holes on the left must mirror the holes on the right.

We can eliminate answer choice 2 since it has two holes next to both the left and right edges of the paper rather than one hole, as seen in the image above.

Answer choice 1 can be eliminated since it has only one hole next to both the upper and lower edges of the paper rather than two holes (one on each side of the folded paper).

We are left with the 4th answer choice, which is the correct answer.

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