OLSAT

Practice

Test

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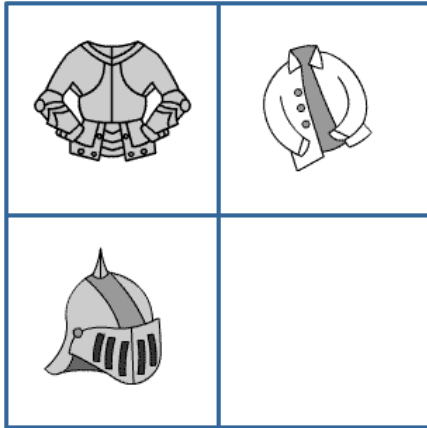
A.

B.

C.

D.

2. If the words below were arranged to make the best sentence, with which letter would the last word of the sentence begin?

   destroyed   the   our   storm   ship   was   by

   A.   T

   B.   S

   C.   O

   D.   M

3. The numbers in the box go together by following the same rule. Decide what the rule is, and then choose the number that goes where you see the question mark.

10, 7	6, 3	8, ?

A. 4

B. 5

C. 6

D. 11

4. A library must always have _____

   A. Computers

   B. Games

   C. Magazines

   D. Books

5. What is the next number in the series

   1   3   8   10   15   ?

A. 12

B. 16

C. 17

D. 20

E. 25

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6. The drawings in the box go together in a certain way. Choose the drawing that goes where you see the question mark.

A.

B.

C.

D.

E.
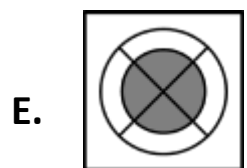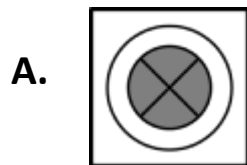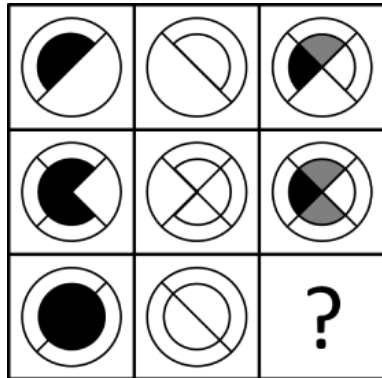
7. The opposite of defend is ____

A. Attack

B. Prevent

C. Avoid

D. Capture

E. Plunge

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8. The Chef has rolled pizza dough, spread tomato sauce, and placed toppings on the pizza what step is missing (photo)?

A.

B.

C.

D.

9. The drawings in the box go together in a certain way. Choose the drawing that goes where you see the empty box.

A.

B.

C.

D.

10. The numbers in the box go together in a certain way. Choose the number that goes where you see the question mark.

8	6	4
11	9	?

A. 3

B. 5

C. 7

D. 10

11. **Water** is to **wet** as **fire** is to —

    A. Firefighter

    B. Dangerous

    C. Wild

    D. Extinguish

    E. Hot

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12. All dogs are mammals. All poodles are dogs. Therefore:

A. All dogs are poodles

B. All mammals are dogs

C. All mammals are poodles

D. Some dogs are not mammals

E. All poodles are mammals

Solutions and Explanations

1. **The correct answer is B.**

   Armor is a hard kind of suit, like a helmet is a hard kind of hat.

2. **The correct answer is the letter "S."**

   The sentence reads: Our ship was destroyed by the storm.

3. **The correct answer is 5.**

   The numbers in the first box are 10 and 7.
   The numbers in the second box are 6 and 3.

   In both sets, 3 is subtracted from the first number to
   get the second   number
   (-3):
   10-3=7
   6-3=3

   The same relationship will hold in the box with the question mark.

   Subtract 3 from the first number (8), to get the second number:
   8-3=5

   Therefore, 5 is the correct answer.

4. The correct answer is **books**. Libraries always have books.

   Libraries do not always have computers, games, or magazines.
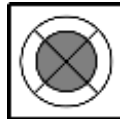
5. **The correct answer is 17.**

In this series, the pattern is as follows: first, 2 is added, then 5 is

added; then 2 again, then 5, and so on.

The pattern is: +2, +5, +2, +5, …

The last two numbers in the series are 10 and 15, 15 is larger than

10 by 5, so the next number in the series should be larger than 15 by 2

15 + 2 = 17

Therefore, 17 is the correct answer.

6. **The correct answer is**:

In this matrix:
In every row the rightmost frame is the combination of the previous
two frames, where white and black combine to make gray. Since in the
third row the first and second frames have complete circles, they
overlap each other completely and create a fully gray circle. The two
lines also combine to make an X within the outer circle, over the inner
circle.

Therefore the correct answer is the 5th answer choice.

7. The correct answer is **attack**.

To defend means to protect from harm or danger. To attack means to harm or endanger.

8. The correct answer is 1.

The chef has rolled pizza dough, spread
tomato sauce, and placed toppings on the pizza. In order to make pizza, the chef also needs to place the **pizza in the oven**.

9.   The correct answer is 4.
  In the above matrix (from left to right):
- Across the rows: the shapes alternate and rotate 45 degrees (1/8 of a circle).
- Down the columns: the shapes simply alternate. There is no rotation.
- Notice that the third row is the same as the first row.

  The answer will exhibit the above patterns.

10.   **The correct answer is 7.**

Across a row, 2 is subtracted from the number in the first column to get the number in the second column. 2 is then subtracted again to get the number in the third column (-2,-2).

8-2=6, 6-2=4

Down a column, 3 is added to the number in the first row to get the number in the second row (+3).

8+3=11
6+3=9

In the second row we are missing the last number.

Since 2 is subtracted from the number in the second column to get the number in the third column, and the number in the second column is 9:
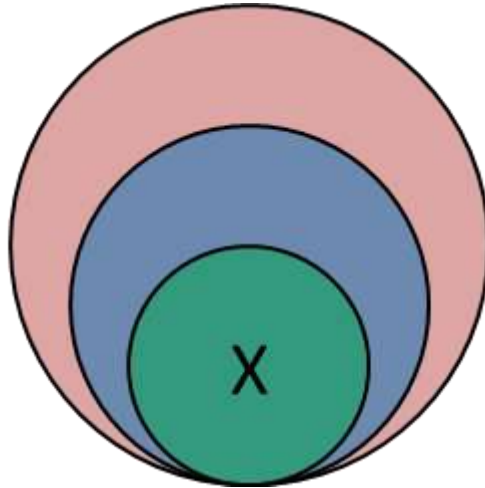
9-2=7

Notice that the last number in the first row is 4, and since down a column we add 3: 4+3=7 as well.

Therefore, 7 is the correct answer.

11.   The correct answer is: **hot**.

A basic property of **water** is that it is **wet** like a basic property of **fire** is that it is **hot**.

12. The correct answer is "**All poodles are mammals**". With this type of question, it's helpful to make a Venn Diagram:

Red=Mammals
Blue=Dogs
Green=Poodles
The "X" on the diagram marks the correct answer, "All poodles are mammals."

Another way of solving this question is to break down each of the original statements.

Since "All poodles are dogs," and "All dogs are mammals," it is easy to see that all poodles are mammals.

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