

Test Question Examples

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Reading comprehension

1. Solar Energy - Read the passage and answer the questions

In the past, home heating systems have been operated using different sources of energy such as wood, electricity, and kerosene.

But these are expensive when compared to a more recently developed source - solar energy. Solar energy is an alternative, but its application for heating is limited to a small number of appliances.

There is also the difficulty of obtaining solar energy for heating purposes in the wintertime when it is most needed and its major resource, the sun, is hardly effective.

Solar energy is hardly available in the winter.

- A. True
 - B. False
 - C. Cannot say
-

The use of solar energy for heating is restricted to a few heating devices.

- A. True
 - B. False
 - C. Cannot say
-

There are other major resources that can be used to provide solar energy instead of the sun.

- A. True
 - B. False
 - C. Cannot say
-

2. How They Grow - Read the passage and answer the questions

How does a butterfly grow? It starts out as a tiny egg. It becomes a caterpillar. It eats lots of leaves. It grows and grows. Then it goes inside a cocoon. At last, it comes out. It's a butterfly!

How does a frog grow? It starts out as a tiny egg in the water. The egg grows into a tadpole. It keeps changing. It eats tiny plants. It grows and grows. At last, it hops out of the pond. It's a frog!

How does a flower grow? It starts out like a seed. Sun and rain help the seed grow. Roots grow into the ground. The plant grows and grows. At last, a bud opens. It's a flower!

Now you know how they grow!

What do you think the butterfly will do next?

- A. fly away
 - B. turn into a frog
 - C. sing a song
 - D. swim in the water
-

Where does a tadpole live?

- A. in a tree
 - B. under a rock
 - C. in the sky
 - D. in the water
-

Read this sentence from the story: **At last, it hops out of the pond.**

What do *hops* mean?

- A. runs
 - B. jumps
 - C. falls
 - D. swims
-

3. Read the statements below and then choose the best answer to the question from the list of lettered choices that follow.

Jenny does not like cake.

She doesn't like to bake it, to ice it, or to eat it.

What does the second sentence do?

- A. It states the cause of the first.
- B. It compares the three things Jenny does not like about cake.
- C. It draws a conclusion about Jenny.
- D. It emphasizes what is stated in the first.

4. Read the passage below and then choose the best answer to the question.

Huge beasts such as the dinosaur have never really become extinct. Mothra, a giant caterpillar who later becomes a moth, destroys Tokyo, and stars in the 1962 Japanese film named for him. Mothra is born, dies, and reborn regularly on classic movie channels. In Japan, Mothra is one of the most popular films ever made. Mothra has survived the creation of more current scary creatures such as giant apes, extraterrestrial beings and swamp creatures. More than years after his creation, Mothra still lives.

The main subject of the passage is:

- A. the reasons that fads do not endure
- B. the lasting appeal of Mothra
- C. the difficulty of marketing good horror movies
- D. old models for creatures are still used because making new monsters is expensive

Logical reasoning

1. Three spies, suspected as double agents, speak as follows, and in this sequence, when questioned:

- A. Albert: Bertie is a mole
- B. Bertie: Cedric is a mole
- C. Cedric: Bertie is lying

Assuming that moles lie, other agents tell the truth, and there is just one mole among the three, determine who is the mole.

2. One train runs from point A to point B at 105 mph, the other runs from B to A at 85 mph. How far apart were the two trains 30 minutes prior to their crossing?

3. Eileen is planning a special birthday dinner for her husband's 35th birthday. She wants the evening to be memorable, but her husband is a simple man who would rather be in jeans at a baseball game than in a suit at a fancy restaurant. Which restaurant below should Eileen choose?

- A. Alfredo's offers fine Italian cuisine and elegant Tuscan decor. Patrons will feel as though they've spent the evening in a luxurious Italian villa.
- B. Pancho's Mexican Buffet is an all-you-can-eat family-style smorgasbord with the best tacos in town.
- C. The Parisian Bistro is a four-star French restaurant where guests are treated like royalty. Chef Dilbert Olay is famous for his beef bourguignon.
- D. Marty's serves delicious, hearty meals in a charming setting reminiscent of a baseball clubhouse in honor of the owner, Marty Lester, a former major league baseball all-star.

4. Which figure belongs in neither group?

Group 1 **Group 2**

A
B
C
D

5. Which figure is the odd one out?

A
B
C
D
E

6. Which figure completes the statement?

A
B
C
D

Number series completion

1. Worker A takes 8 hours to do a job. Worker B takes 10 hours to do the same job. How long it take both A & B, working together but independently, to do the same job?

- A. 40/9 days
- B. 40/7 days
- C. 7.5 days
- D. 8.5 days

2. A train 140m long is running at 60kmph. In how much time will it pass a platform 260m long?

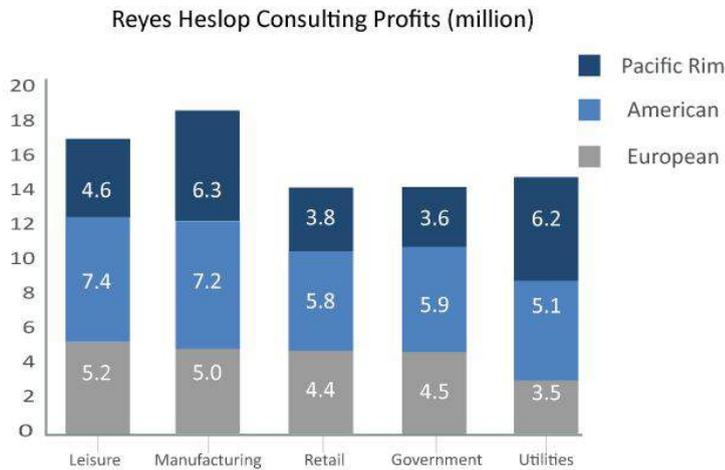
- A. 15 seconds
- B. 24 seconds
- C. 28 seconds
- D. 30 seconds

3. 4, 6, 12, 14, 28, 30, ?

- A. 32
- B. 64
- C. 62
- D. 60

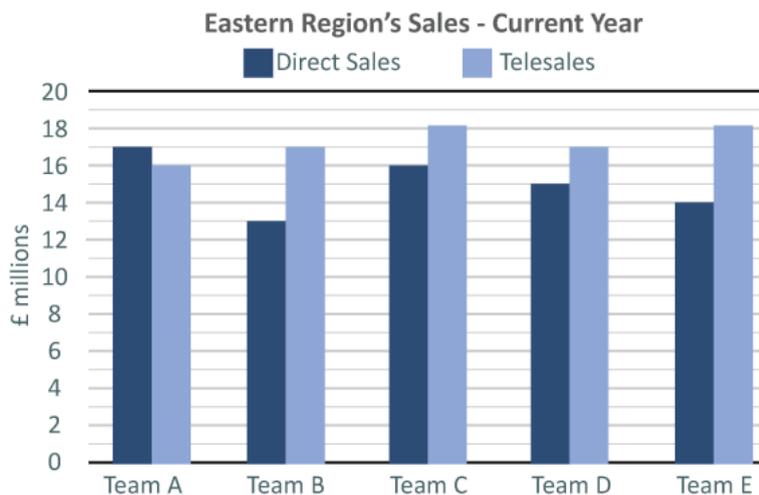
Numerical Test

1. Which sector represents approximately 19% of the profits from the five sectors shown?



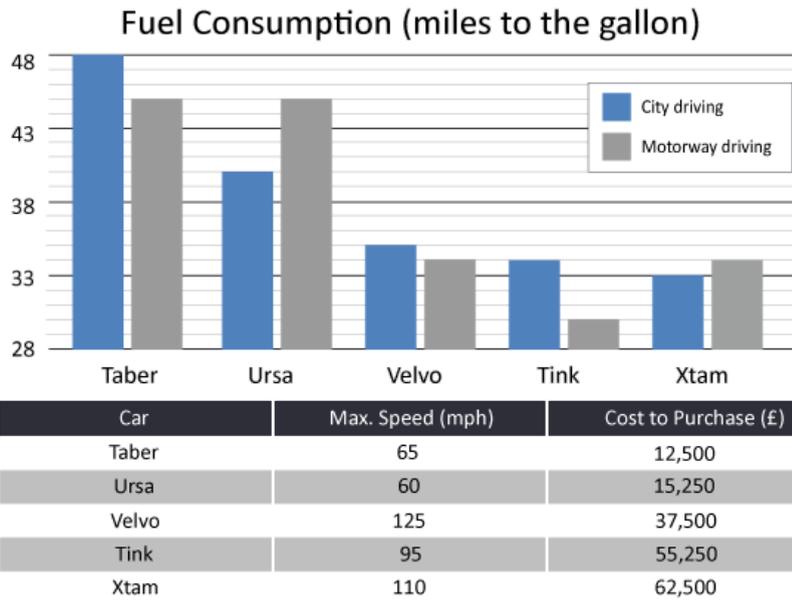
- A. Leisure
- B. Manufacturing
- C. Retail
- D. Government
- E. Utilities

2. What is the difference between direct sales and telesales across the five teams combined?



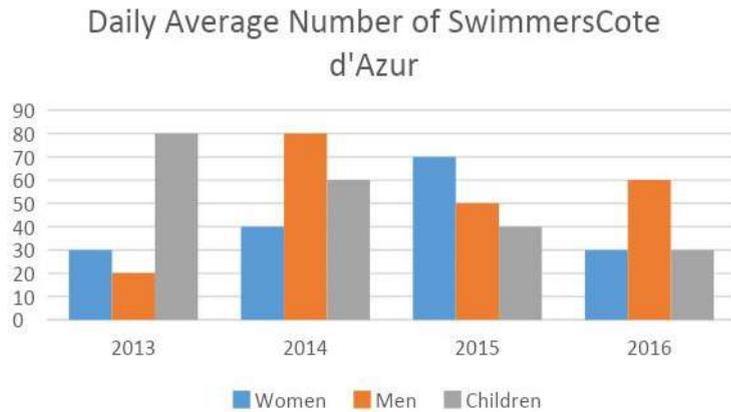
- A. 10 million
- B. 11 million
- C. 12 million
- D. 13 million
- E. 14 million

3. A field sales agent plans to travel on average 4,250 miles per month driving along motorways in her Xtam car. What is her projected average annual consumption of fuel (in gallons)?



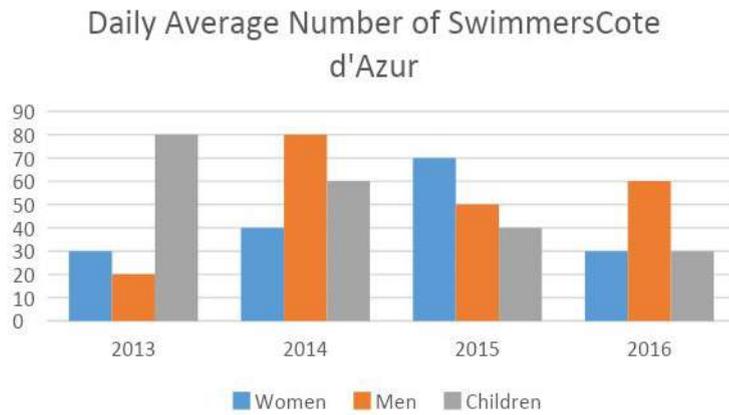
- A. 1.500
- B. 125
- C. 150
- D. 1.250

4. In which year was the average number of daily swimmers the highest?



- A. 2013
- B. 2014
- C. 2015
- D. 2016

5. Assuming the children group is 50% boys and 50% girls, how many more males swam at Cote d'Azur in 2006 than in 2005?



- A. 35
- B. 45
- C. 10
- D. 5

Cracking the code

1. What is the output of `10 + 20 + "30"` in JavaScript?
2. How are errors handled in JavaScript?
3. Make a function to sum first N natural numbers using recursion
4. Implement a method to perform basic string compression using the counts of repeated characters. For example, string `aabccccaaa` would become `a2b1c4a3`
5. What is constructor?
6. What is code review?

OOP Questions

1. What are the basic concepts of OOP?
2. What is a class?
3. Define Modularity
4. What is Inline function?
5. How can we call the base method without creating an instance?
6. What are base class, subclass, and superclass?