



1. For questions 1-40, read the text below and think of the word which best fits each gap. Use only one word in each gap.

TIPS:

- a) Begin by reading through the whole text to find out what it is about and what it contains.
- b) Look carefully at what comes both before and after each gap so that you can decide on the meaning of the word that correctly fills each gap (prepositions, verb forms, etc.)
- c) It is possible that more than one word fits correctly because of its meaning, but only one word is also grammatically correct. Remember that context matters.

Sneak Peek at World's Biggest Engine: Already on Boeing 777X

The long-awaited public debut of Boeing 777X was scheduled 1) _____ 13 March, 2019. Therefore, in view of tragic events and turbulence that Boeing has been experiencing 2) _____ the past few weeks, the company decided to 3) _____ the date of public appearance of its newest aircraft. While the aircraft is being "closed" for the public eyes, let's take a 4) _____ into what we know about the Boeing 777X.

General Electric Aviation, a 5) _____ of General Electric, 6) _____ the development of GE9X in 2013 when it started to look 7) _____ the ways to produce even a more efficient 8) _____ to power both variants of the new Boeing 777X, 777-8 and 777-9. GE9X is 9) _____ the fifth evolution of the legendary GE90.

Top Tech Specs of the Biggest Ever

So, what is the 10) _____ of the world's biggest engine? First of 11) _____, the GE9X is bigger than 12) _____ predecessor. Even more, the new engine with a 134-inch (340 cm) 13) _____ of the front fan is wider than the 14) _____ of the Boeing 737. Notably, aircraft engines, especially their fan and 15) _____, is where the size matters. Why?

Primarily, the size of the engine is 16) _____ to efficiency and noise. The 17) _____ the fan is, the more air with _____ energy it draws (not to forget the 18) _____, of course, the less it is the better). Why do larger fans 19) _____ to the engine producing less noise? Because the airflow is 20) _____ over the greater area.

Meanwhile wider fan, which 21) _____ 16 blades, allowed GE engineers to improve 22) _____ ratio (the amount of air that passes through the fan and bypasses, or goes 23) _____ the engine's core rather than 24) _____ it). Now the GE9X has a bypass ratio in excess of 10:1. In 25) _____ words, in an engine with a bypass ratio of 10:1, for every 11 units of air drawn 26) _____ the engine, 10 will bypass the engine core and 1 will go through it. What concerns pressure 27) _____, it could achieve 60:1.

As already mentioned, the size is nothing without a proper weight which should be 28) _____ to minimum. Weight of the engine 29) _____ fuel consumption, thus to not 30) _____ fuel efficiency with an increased performance, it is 31) _____ to keep the balance.

32) _____ this reason, for the production of the GE9X ultra-lightweight ceramic matrix 33) _____ components were 34) _____. This material is also more heat 35) _____ than metal alloys. Why is it important? The GE9X could reach record pressure ratio of 27:1 which contributes to 36) _____ higher temperature of the air. It 37) _____ efficiency but is tough 38) _____ components. That is 39) _____ ultra-lightweight materials with greater 40) _____ to heat are extremely valuable development.

I. Use some of the key words you have just used to complete the following sentences. Sometimes you need to change the form of the word.

1. The fan _____ is difference is due to the design differences between the two engines.
2. Human error may have been a factor which _____ to the latest fatal crash of Indonesian Boeing 737 MAX.
3. We decided to use the western _____ around the town not to get stuck in the traffic jams.
4. The propeller consist of two or more _____ connected together by a hub.
5. What's the greatest benefit of using _____ materials in the aerospace industry?
6. The configuration of a turbofan engine makes it possible to divide the airflow into the engine where only a portion of the air mass goes into the engine core, and the rest of the air mass _____ the engine core.

7. We'll have to _____ the meeting with our _____ until next week.
8. Turbochargers significantly _____ engine performance without adding much weight.
9. The _____ of Thomas Cook's collapse of the aviation industry is _____.
10. The 787 was designed to be the first production airliner with the _____ comprising one-piece **composite** barrel sections instead of the multiple aluminum sheets and some 50,000 fasteners used on existing aircraft.

II. Look back at the text. Find examples of:

1. Passive voice
2. Present Perfect Continuous
3. The/The comparative

III. Change the following active sentences into passive.

- a) The maintenance department regularly services the machine.
- b) We checked the production until last week.
- c) The apprentice is cleaning the tools at the moment.
- d) We will make the plans ready by the end of the week.
- e) Before the test we had already worked with the new material.
- f) We are going to schedule the meeting for next week.
- g) The factory has been producing these tiny components for a couple of months.
- h) The accident happened while we were cleaning the machine.
- i) The service had been working on the new system for a whole week before they found the failure.
- j) You should wear protective clothing in the workshop.

IV. Rephrase the following sentences, using the present perfect tense with **FOR** or **SINCE**:

I last saw this manual on September 2.
*I haven't seen this manual **since** September 2.*
It is two years since I saw our CEO.
*I haven't seen our CEO **for** two years.*

1. It's three years since I had a puncture.
2. It's four months since he earned any money.
3. The company last paid taxes in 2000.

4. It's two months since the engine has been cleaned.
5. I last drank champagne at my brother's wedding.
6. It's years since I last went to the US.
7. I last saw such a failure five years ago.

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8. It's a year since we installed this engine type first time ever.
- 9.
10. It's years since Boeing experienced problems with EMCAS system.
11. I was last paid six months ago.

V. For each sentence below, come up with a correct combination of comparatives to make a logical sentence.

1. The ____ you study for these exams, the ____ you will do.

2. She doesn't really like vodka, so the ____ a bottle you find, the ____ it will be for us!

3. My neighbor is driving me mad! It seems that the ____ it is at night, the ____ he plays his music!

4. He spent a year in India and loves spicy food. The ____ the food is, the ____ he likes it.

5. Of course you can come to the party! The ____ the ____.

6. She will be really angry about that vase being broken! The ____ she knows about it, the ____.

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7. He has 6 large dogs to protect his house. The ____ the dog, the ____ he feels.

8. Earning money has always been the thing that pleases him most. The ____ he becomes, the ____ he is.

9. You must drive slower in built up areas. The ____ you drive in the city, the ____ it is that you will have an accident.