

## Manufacturing

1 What do you know about cars? Think about the location and function of these parts. Escribe su variante en español

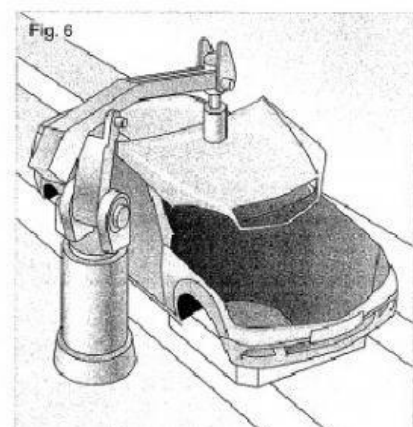
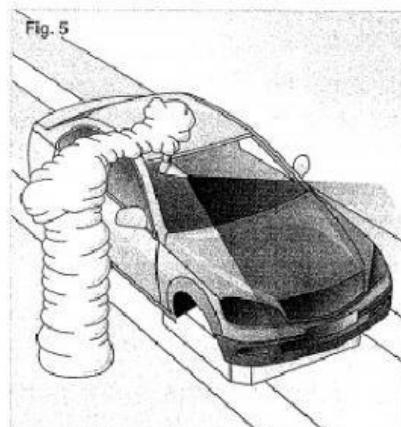
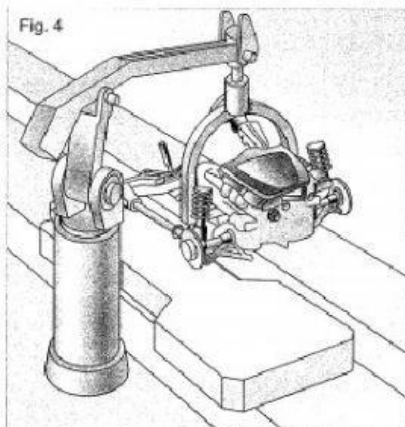
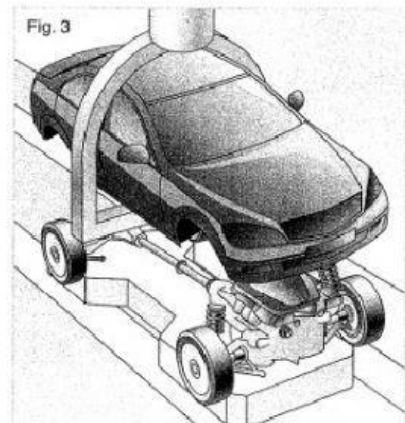
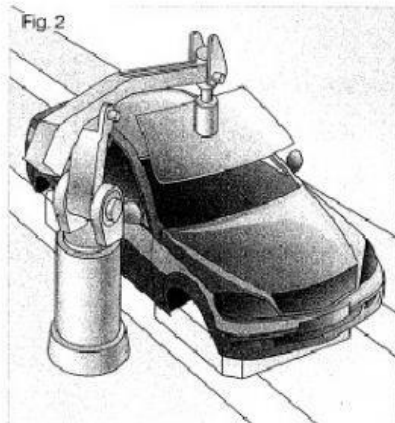
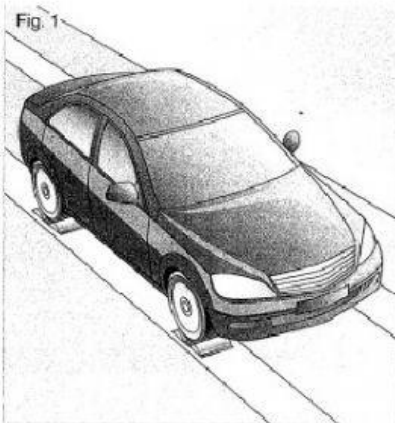
Body: \_\_\_\_\_

axle: \_\_\_\_\_

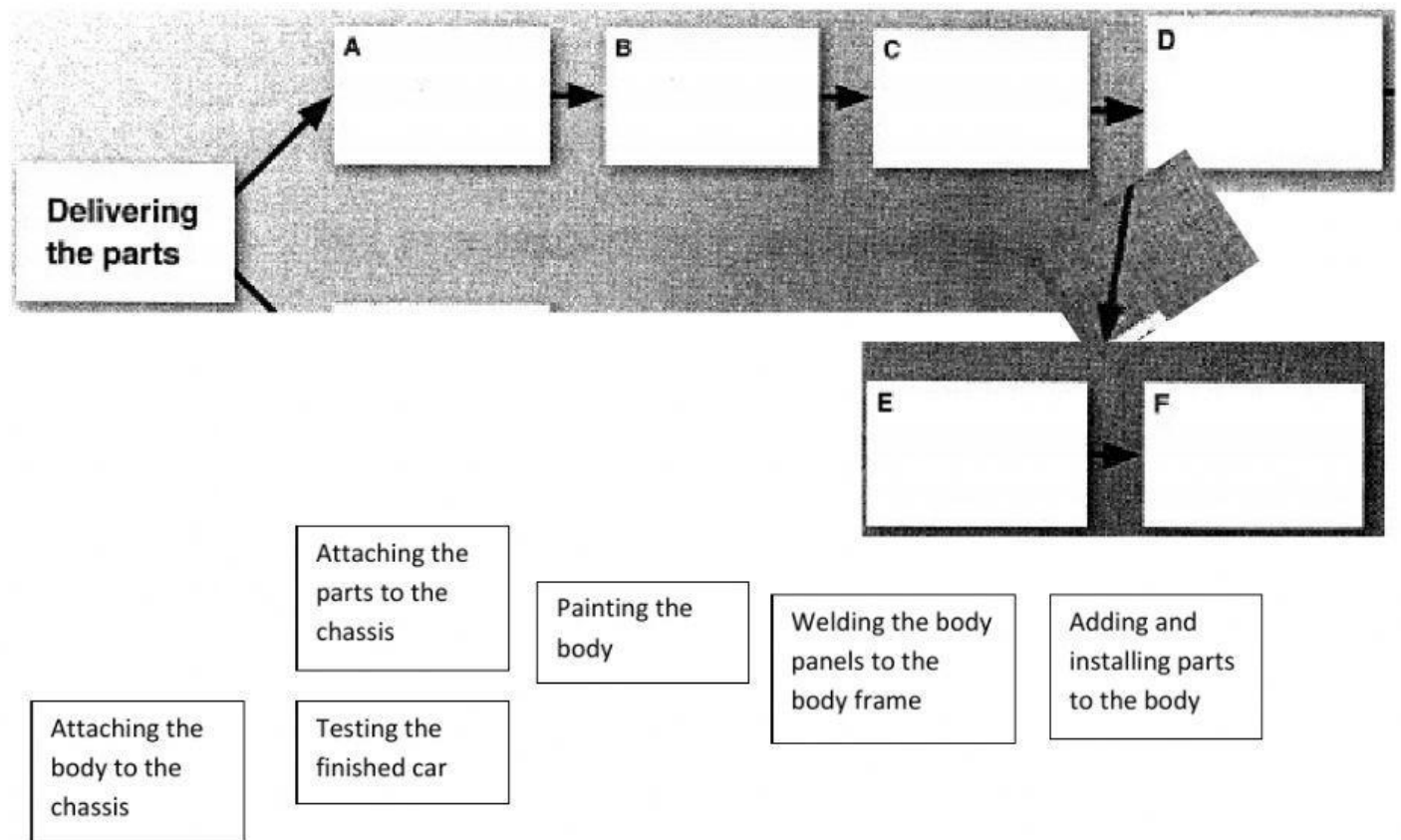
drive shaft: \_\_\_\_\_

transmission: \_\_\_\_\_

2 The photos show the main stages in assembling a car, but they are in the wrong order. Write the figure numbers in the correct boxes in the flow chart. Poner en orden las imágenes.



### Match the captions. Qué ocurre en cada imagen?



### Ahora lee el paso a paso del proceso de ensamblaje

First, the parts are delivered by truck or rail to the *delivery area* of the car assembly plant. From here, some parts are taken to the body shop, and other parts are transported to the chassis line. The parts are carried around the plant by forklift trucks or conveyor belts.

In the *body shop*, the panels are welded to the frame to form the body of the car. This is done by more than 400 robots.

Then the body is taken to the *paint shop*. Here it is cleaned and painted by robots. Special clothing is worn by the robots to protect the paint. After this, the body is checked by human workers to look for faults.

Next, the painted body moves along a conveyor belt to the *trim line* and many parts are added to it. For example, the instrument panel, the air conditioning system, the heating system and the electrical wiring are all installed here. The windscreen is inserted by robots using laser guides.

Meanwhile, in the *chassis line*, components are added to the chassis. First, the chassis is turned upside down, to make the work easier. Then the fuel system, the transmission, the suspension, the exhaust system, the axles and the drive shaft are all installed. Next the chassis is turned over (rightside up). The engine is lowered into the chassis and connected to it.

Now the chassis and the body move simultaneously to the *final assembly line*. Here the body is attached to the chassis, and all the final parts are added. The tyres and the radiator are added here. The hoses are connected, and the radiator and air conditioner are filled with fluid. The car's central computer is also installed here.

Lastly, the finished car and all electrical systems are tested. The car is filled with fuel and the engine is started for the first time. The car is put on special rollers to test the engine and the wheels. If it passes the test, the car is finally driven out of the assembly plant.

### Now turn the sentences into PASSIVE VOICE. Ahora pasa estos enunciados a voz pasiva

1. More than 400 robots weld the panels to the frame.
2. Robots clean and paint the body
3. Robots add more parts to the painted body. For example, the air conditioning system, the heating system and the electrical wiring.
4. The robots add more components to the chassis. For example, the fuel system, the transmission, the suspension, the exhaust system, the axles and the drive shaft. The robots lower the engine into the chassis and connect it
5. Here the robots attach the body to the chassis and add all the final parts.
6. The robots test the finished car and all the electrical systems.