

# What is Engineering?



## Marking Instructions

|  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• Use a No. 2 pencil or a blue or black ink pen only.</li> <li>• Make solid marks that fill the response completely.</li> </ul> | <p><b>CORRECT:</b> ●</p> <p><b>INCORRECT:</b> ⊗ ⊘ ⊙ ⊚</p> |
|--|---|

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Are these things that an engineer would do for his or her job? (YES or NO):

|  |                           |                          |
|--|---------------------------|--------------------------|
| 1. Develop better bubble gum                             | <input type="radio"/> Yes | <input type="radio"/> No |
| 2. Install cable television                              | <input type="radio"/> Yes | <input type="radio"/> No |
| 3. Improve bandages                                      | <input type="radio"/> Yes | <input type="radio"/> No |
| 4. Draw diagrams of new technologies                     | <input type="radio"/> Yes | <input type="radio"/> No |
| 5. Fix headlights on cars                                | <input type="radio"/> Yes | <input type="radio"/> No |
| 6. Nail beams together for new houses                    | <input type="radio"/> Yes | <input type="radio"/> No |
| 7. Figure out how to package bottles so they don't break | <input type="radio"/> Yes | <input type="radio"/> No |
| 8. Come up with ways to keep soup hot for a picnic       | <input type="radio"/> Yes | <input type="radio"/> No |
| 9. Develop smaller cell phones                           | <input type="radio"/> Yes | <input type="radio"/> No |
| 10. Invent warmer kinds of cloth                         | <input type="radio"/> Yes | <input type="radio"/> No |
| 11. Improve camera lenses                                | <input type="radio"/> Yes | <input type="radio"/> No |
| 12. Invent waterproof materials                          | <input type="radio"/> Yes | <input type="radio"/> No |
| 13. Design tools for surgery                             | <input type="radio"/> Yes | <input type="radio"/> No |
| 14. Cut glass to make windows in buildings               | <input type="radio"/> Yes | <input type="radio"/> No |
| 15. Pack furniture into boxes in a factory               | <input type="radio"/> Yes | <input type="radio"/> No |
| 16. Repair cars  | <input type="radio"/> Yes | <input type="radio"/> No |
| 17. Pour cement for new roads                            | <input type="radio"/> Yes | <input type="radio"/> No |
| 18. Build chimneys out of bricks                         | <input type="radio"/> Yes | <input type="radio"/> No |
| 19. Figure out ways to explore the ocean                 | <input type="radio"/> Yes | <input type="radio"/> No |
| 20. Install wiring                                       | <input type="radio"/> Yes | <input type="radio"/> No |

PLEASE DO NOT WRITE IN THIS AREA



[SERIAL]

Are these things that an engineer would do for his or her job?  
(YES or NO):

|                                       |                           |                          |
|---------------------------------------|---------------------------|--------------------------|
| 21. Fix computers                     | <input type="radio"/> Yes | <input type="radio"/> No |
| 22. Think about ways to clean the air | <input type="radio"/> Yes | <input type="radio"/> No |
| 23. Put shelves together in a store   | <input type="radio"/> Yes | <input type="radio"/> No |
| 24. Design smaller kinds of computers | <input type="radio"/> Yes | <input type="radio"/> No |

How important are each of the following activities  
to the work of an engineer?

|   | Not Important           | A Little Important      | Sort of Important       | Quite Important         | Very Important          |
|---|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| 25. Using math                              | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> 5 |
| 26. Driving machines                        | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> 5 |
| 27. Using models                            | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> 5 |
| 28. Testing ideas                           | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> 5 |
| 29. Building houses                         | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> 5 |
| 30. Working as a team                       | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> 5 |
| 31. Doing experiments                       | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> 5 |
| 32. Solving problems                        | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> 5 |
| 33. Sketching ideas                         | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> 5 |
| 34. Repairing engines                       | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> 5 |
| 35. Using their creativity                  | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> 5 |
| 36. Understanding science                   | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> 5 |
| 37. Using power tools to fix things         | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> 5 |
| 38. Using power tools to build things       | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> 5 |
| 39. Writing down their ideas                | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> 5 |
| 40. Fixing broken things for other people   | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> 5 |
| 41. Telling other people what they find out | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> 5 |
| 42. Brainstorming different ideas           | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> 5 |
| 43. Driving people from place to place      | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> 5 |