

What is Engineering?



Marking Instructions

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

Are these things that an engineer would do for his or her job? (YES or NO): Answers are from a sample of engineers

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