

Name: _____

Effect of Changing Dimensions

For problems 1-9, determine the value of the new length, area or volume if the dimensions were **doubled**.

1. Area: 49	2. Length: 61	3. Volume: 33
4. Volume: 36	5. Area: 39	6. Length: 9
7. Length: 20	8. Volume: 22	9. Area: 63

For problems 10-18, determine the value of the new length, area or volume if the dimensions were **tripled**.

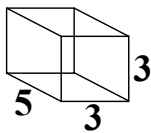
10. Length: 24	11. Volume: 56	12. Area: 32
13. Area: 51	14. Length: 52	15. Volume: 44
16. Volume: 21	17. Area: 16	18. Length: 57

For problems 19-27, determine the value of the new length, area or volume if the dimensions were **multiplied by 4**.

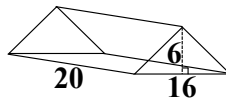
19. Volume: 22	20. Area: 12	21. Length: 45
22. Length: 21	23. Volume: 28	24. Area: 24
25. Area: 13	26. Length: 20	27. Volume: 17

Evaluate.

28. What will the new volume be if all of the dimensions were to double?



29. What will the new volume be if all of the dimensions were to triple?



30. What will the new volume be if all of the dimensions were to multiply by 4?

