

### Multiple Choice Problems

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|------|-------|-------|
| 1. C | 7. C  | 13. D |
| 2. B | 8. D  | 14. C |
| 3. E | 9. D  | 15. D |
| 4. D | 10. E | 16. E |
| 5. C | 11. E | 17. D |
| 6. D | 12. B | 18. E |
|      |       | 19. E |

### Exact Answer Problems

20.  $1/2$

23. 7 (5 sons and 2 daughters)

26.  $400\sqrt{3} - \frac{550}{3} \cdot \pi$

21.  $\sqrt{2} = \sqrt[4]{4} < \sqrt[3]{3}$

24. e.g.  $f(x) = x$

27. 60

22.  $x = \frac{\alpha \cdot \gamma}{\beta - \alpha}$

25.  $3/8$

28. 5:1