

Practice Set 8



Write all of your answers on a separate sheet of paper.

Rewrite each product using exponents.

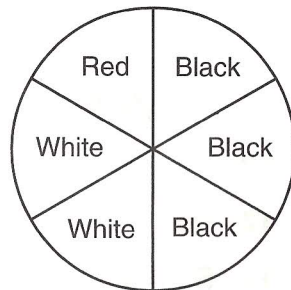
- | | |
|----------------------|------------------------|
| 1. $3 * 3 * 3$ | 2. $3 * 3 * 5 * 5 * 5$ |
| 3. $2 * 2 * 7 * 7$ | 4. $5 * 5 * 7 * 7$ |
| 5. $3 * 3 * 11 * 11$ | 6. $5 * 5 * 5 * 5$ |

Tell which is the prime factorization for each number.

- | | |
|-------|------------------------------------|
| 7. 16 | $2 * 2 * 2 * 2$ or $2 * 2 * 2 * 4$ |
| 8. 9 | $2 * 3$ or $3 * 3$ |
| 9. 30 | $3 * 10$ or $2 * 3 * 5$ |

Use the spinner for items 10–12. Suppose you spin a paper clip on the base of the spinner. Write *true* or *false* for each statement.

10. The paper clip is most likely to land on black.
11. The paper clip is least likely to land on red.
12. The paper clip is equally likely to land on black as on white.



Solve.

- | | | |
|---|---|---|
| 13. $\begin{array}{r} 20 \\ + 17 \\ \hline \end{array}$ | 14. $\begin{array}{r} 31 \\ - 15 \\ \hline \end{array}$ | 15. $\begin{array}{r} 38 \\ + 24 \\ \hline \end{array}$ |
| 16. $\begin{array}{r} 320 \\ - 160 \\ \hline \end{array}$ | 17. $\begin{array}{r} 560 \\ + 481 \\ \hline \end{array}$ | 18. $\begin{array}{r} 745 \\ - 260 \\ \hline \end{array}$ |

Practice Set 8 (cont.)



Write all of your answers on a separate sheet of paper.

In each set of problems below, do as many exercises as you can in one minute.

- | Problem Set 1 | Problem Set 2 | Problem Set 3 |
|----------------|---------------|----------------|
| 19. $108 / 9$ | 34. $9 * 6$ | 49. $6 * 6$ |
| 20. $44 / 4$ | 35. $7 * 7$ | 50. $12 * 11$ |
| 21. $121 / 11$ | 36. $12 * 8$ | 51. $8 * 4$ |
| 22. $90 / 9$ | 37. $2 * 10$ | 52. $3 * 8$ |
| 23. $132 / 12$ | 38. $11 * 4$ | 53. $4 * 10$ |
| 24. $12 * 5$ | 39. $12 * 6$ | 54. $64 / 8$ |
| 25. $10 * 11$ | 40. $3 * 11$ | 55. $49 / 7$ |
| 26. $12 * 7$ | 41. $12 * 9$ | 56. $144 / 12$ |
| 27. $9 * 7$ | 42. $4 * 7$ | 57. $21 / 3$ |
| 28. $4 * 12$ | 43. $11 * 11$ | 58. $55 / 5$ |
| 29. $6 * 7$ | 44. $81 / 9$ | 59. $63 / 9$ |
| 30. $4 * 3$ | 45. $8 * 8$ | 60. $21 / 7$ |
| 31. $14 / 2$ | 46. $12 * 12$ | 61. $15 * 3$ |
| 32. $17 * 2$ | 47. $16 / 4$ | 62. $48 / 8$ |
| 33. $12 * 10$ | 48. $6 * 9$ | 63. $9 * 8$ |