

First 9 Weeks Test Study Sheet 1**Short Answer**

1. Multiply. Write the product as one power.

$$12^9 \bullet 12^2$$

2. Multiply. Write the product as one power.

$$16^9 \bullet 16^6$$

3. Divide. Write the quotient as one power.
- $\frac{6^8}{6^2}$

4. Divide. Write the quotient as one power.
- $\frac{b^5}{b^3}$

5. Evaluate.
- $(2)^4 \bullet (2)^{-1}$

6. Write each number as a positive exponent and then evaluate.
- 4^{-2}

7. Write each number as a positive exponent and then evaluate.
- 3^{-3}

8. Evaluate.
- $\frac{(5)^8}{(5)^{11}}$

Write each number in standard notation.

- 9.
- 3.29×10^3

- 10.
- 8.95×10^{-2}

Write each number in scientific notation.

11. 680,000,000

12. 0.000000036

13. Write the decimal 0.96 as a fraction in simplest form.

14. Write the decimal
- $0.\overline{96}$
- as a fraction in simplest form.

15. Write the decimal
- $0.\overline{639}$
- as a fraction in simplest form.

16. Write the decimal 0.322 as a fraction in simplest form.

17. Write the following fraction as a decimal.
- $\frac{1}{9}$

18. Write the following fraction as a decimal.
- $\frac{7}{4}$

19. Write the following fraction as a decimal.
- $\frac{1}{3}$

20. Solve.
- $0.17 - 1.83$

21. Solve.
- $-1.21 - 0.66$

22. Solve.
- $0.04 + 0.03$

23. Evaluate the expression
- $-20.4 + x$
- for
- $x = -29.6$
- .

24. Solve. If possible, simplify.
- $\frac{3}{8} + \frac{7}{8}$

25. Solve. If possible, simplify.
- $\frac{-1}{12} + \frac{5}{12}$

26. Multiply the following and simplify.
- $4\left(\frac{3}{11}\right)$

27. Multiply, and simplify the answer.
- $\frac{-3}{5}\left(\frac{-6}{7}\right)$

28. Multiply, and simplify the answer.
- $\frac{5}{6}\left(\frac{-3}{5}\right)$

Name: _____

ID: A

29. Evaluate the expression $1\frac{1}{8}s$ for $s = 1\frac{5}{6}$.
30. Evaluate the expression $-1\frac{1}{6}s$ for $s = 1\frac{1}{2}$.
31. Evaluate the expression $1\frac{1}{5}s$ for $s = -\frac{2}{3}$.
32. Multiply. $-0.7(0.53)$
33. Multiply. $-0.03(0.07)$
34. Multiply. $0.05(8.3)$
35. Divide and simplify. $\frac{5}{18} \div \frac{4}{16}$
36. Divide and simplify. $\frac{6}{14} \div \frac{6}{9}$
37. Divide and simplify. $\frac{7}{16} \div \frac{6}{7}$
38. Divide. $0.56 \div 0.7$
39. Divide. $0.36 \div 9$
40. Perform the following operation. Simplify if necessary. $\frac{-3}{10} + \frac{4}{9}$
41. Perform the following operation. Simplify if necessary. $\frac{2}{11} + \frac{5}{7}$
42. Perform the following operation. Simplify if necessary. $\frac{-1}{10} + \frac{1}{7}$