27.
$$\left(\frac{1}{10}\right)^0$$
 is equal to

(a) 0

(b) $\frac{1}{100}$

(c) 1

(d) 10

28.
$$\left(\frac{3}{4}\right)^5 \div \left(\frac{5}{3}\right)^5$$
 is equal to

(a) $\left(\frac{3}{4} \div \frac{5}{3}\right)^5$ (b) $\left(\frac{3}{4} \div \frac{5}{3}\right)^1$ (c) $\left(\frac{3}{4} \div \frac{5}{3}\right)^0$ (d) $\left(\frac{3}{4} \div \frac{5}{3}\right)^{10}$

For any two non-zero rational numbers x and y, x⁴ ÷ y⁴ is equal to

(a) $(x \div y)^0$

(b) $(x + y)^1$ (c) $(x + y)^4$ (d) $(x + y)^6$

30. For a non-zero rational number p, $p^{13} \div p^{8}$ is equal to

(a) p⁵

31. For a non-zero rational number z, $(z^{-2})^3$ is equal to

(b) z *

32. Cube of $-\frac{1}{2}$ is

33. Which of the following is not the reciprocal of $\left(\frac{2}{3}\right)^{4}$?

(a) $\left(\frac{3}{2}\right)^4$ (b) $\left(\frac{3}{2}\right)^4$

In questions 34 to 65, fill in the blanks to make the statements true.

34. The multiplicative inverse of 1010 is

35. $\alpha^{\circ} \times \alpha^{\circ \circ} =$

Draw Conclusions

Use your observations to complete this exercise.

Write the power of 10 in standard form.

1 . 10* 2. 107 3. 10

4. 10-

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