

Operation Meanings and Real Numbers B2

Perform the indicated operations, and state the sets of real numbers to which the answer belongs.

1) $18/3$

2) -9

3) 2.45

4) 0

5) $-\sqrt{23}$

6) $5/16$

7) $9/1$

8) $\sqrt{16}$

9) 7.23

10) $.63215\dots$

Explain the meaning of the following operations.

11) $4 + 12$

12) 5×6

13) 8^3

14) $32 \div 4$

15) Why is $32 \div 4$ defined?

16) Why is $16 \div 0$ undefined?

17) Why is $0 \div 0$ undefined?

State the property of real numbers illustrated in each problem.

18) $5 + x = x + 5$

19) $p(1) = p$

20) $3(a - 4) = 3(a) - 3(4)$

21) $j + (-j) = 0$

22) $b + (c + d) = (b + c) + d$

23) $10(q) = q(10)$

24) $z(1/z) = 1$

25) $7(4 \cdot g) = (7 \cdot 4)g$

26) $t + 0 = t$