

Find the value of the missing letter using your knowledge of real number properties

1. $(6 + 7) + 9 = 6 + (a + 9)$ $a =$ _____

2. $b + (5 + 3) = (8 + 5) + 3$ $b =$ _____

3. $(9 \times 11) \times 3 = 9 \times (11 \times c)$ $c =$ _____

4. $4 \times (d \times 2) = (4 \times 20) \times 2$ $d =$ _____

5. $7 + 8 = 8 + e$ $e =$ _____

6. $f + 9 = 9 + 11$ $f =$ _____

7. $10 \times g = 20 \times 10$ $g =$ _____

8. $15 \times 22 = h \times 15$ $h =$ _____

Determine if the following mathematical statements are "True" or "False"

1) $15 + (6 + 4) = (15 + 6) + 4$ _____

2) $(8 \times 2) \times 10 = 8 \times (2 \times 10)$ _____

3) $-9 + 6 = 6 + 9$ _____

4) $14 - 8 = 8 - 14$ _____

5) $12 \times -3 = -3 \times 12$ _____

6) $8 \times -7 = 7 \times -8$ _____