

Diagnostic: Apply the Distributive Property

Date _____

Simplify each expression.

1) $10(-1 + 8m)$

2) $-8(2n + 2)$

3) $7(-10 - b)$

4) $\frac{13}{6}\left(-\frac{3}{2}n + \frac{1}{4}\right)$

5) $10\left(k - \frac{5}{4}\right)$

6) $\frac{19}{10}\left(\frac{8}{9}a - \frac{1}{2}\right)$

7) $-8.4(-0.4 + 5.3n)$

8) $7.9(4.2m - 9.2)$

9) $-9.5(4.9 - n)$

10) $-4x(-10x + 4)$

Answers to Diagnostic: Apply the Distributive Property

1) $-10 + 80m$

2) $-16n - 16$

3) $-70 - 7b$

4) $-\frac{13}{4}n + \frac{13}{24}$

5) $10k - \frac{25}{2}$

6) $\frac{76}{45}a - \frac{19}{20}$

7) $3.36 - 44.52n$

8) $33.18m - 72.68$

9) $-46.55 + 9.5n$

10) $40x^2 - 16x$