

# Push Tasks – Answers



**1.**  $3(2x + 5)$  Expand  
 $3 \times 2x + 3 \times 5 = 6x + 15$

**2.**  $4(3a - 2)$  Expand  
 $4 \times 3a - 4 \times 2 = 12a - 8$

**3.**  $-2(y + 7)$  Expand  
 $-2y - 14$

**4.**  $-5(2m - 3)$  Expand  
 $-10m + 15$

**5.**  $6(p - q)$  Expand  
 $6p - 6q$

**6.**  $-3(4b + c)$  Expand  
 $-12b - 3c$

**7.**  $2(3x - 4) + 5$   
 $6x - 8 + 5 = 6x - 3$

**8.**  $7 - (2y + 3)$   
 $7 - 2y - 3 = -2y + 4$

**9.**  $4(2a + 1) - 3$   
 $8a + 4 - 3 = 8a + 1$

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**10.**  $3(5b - 2) + 8$   
 $15b - 6 + 8 = 15b + 2$

**11.**  $2(4c + 3) - 3(2c - 1)$   
 $8c + 6 - 6c + 3 = 2c + 9$

**12.**  
 $-5(2d - 1) + 4(3d + 2)$   
 $-10d + 5 + 12d + 8 =$   
 $2d + 13$

**13.**  $\square(x + 4) = 6x + 24$   
 $\square = 6$

**14.**  
 $-4(y - \square) = -4y + 20$   
 $\square = 5$

**15.**  $5(\square + 2) = 15x + 10$   
 $\square = 3x$

**16.**  $\square(2a - 3) = 8a - 12$   
 $\square = 4$

**17.**  
 $-3(b + \square) = -3b - 15$   
 $\square = 5$

**18.**  $4(\square - 5) = 12x - 20$   
 $\square = 3x$

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**19.**  $3(2x + 1)$  vs  $6x + 3$   
**Equal (same – distributive property)**

**20.**  $2(x + 3)$ ,  $2x + 3$ ,  $2x + 6$ ,  $3(x + 2)$   
 $2x + 3$  **doesn't belong (others =  $2x + 6$ )**

**21.** Write expanding to  
 $5x + 15$   
 $5(x + 3)$

**22.** Write expanding to  
 $-2a + 8$   
 $-2(a - 4)$

**23.** Write expanding to  
 $12x - 8$   
 $4(3x - 2)$

**24.** Write expanding to  
 $-9a - 6$   
 $-3(3a + 2)$

**25.** Rect:  $x$  by  $x + 3$ ,  
perimeter  
 $4x + 6$

**26.** Rect:  $2x + 1$  by  $3$ ,  
area  
 $6x + 3$

**27.**  $k(3 + 2) = 5k$ ,  
property?  
**Distributive property**