PCR Worksheet

1. Master Mix (2X)

Number of reactions (n) = _____

Total volume of master mix = $\frac{n+1 \times 50\mu L}{2}$ = _____ µL

Component (Concentration)	Volume (µL)
PCR Buffer (5X)	
dNTPs (50X)	
Taq Polymerase (200X)	
Sterile ddH_2O	

2. Primer Sets (5X)

Primer Set A: _____

Number of reactions (n) = _____

Total volume = $n + 1 \times 10\mu L$ = _____ µL

Primer (Concentration)	Volume (µL)
Forward (+) Primer (100X)	
Reverse (-) Primer (100X)	
Sterile ddH_2O	

Primer Set B: _____

Number of reactions (n) = _____

Total volume = $n + 1 \times 10\mu L$ = _____ µL

Primer (Concentration)	Volume (µL)
Forward (+) Primer (100X)	
Reverse (-) Primer (100X)	
Sterile ddH_2O	

Primer Set C: _____

Number of reactions (n) = _____

Total volume = $n + 1 \times 10\mu L$ = _____ µL

Primer (Concentration)	Volume (µL)
Forward (+) Primer (100X)	
Reverse (-) Primer (100X)	
Sterile ddH_2O	

3. Reactions

Each reaction is 50 µL in total volume.

Component (Concentration)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Master Mix (2X)										
Primer Set A (5X)										
Primer Set B (5X)										
Primer Set C (5X)										
Template I (25X)										
Template II (25X)										
Sterile ddH_2O										