FORM 1
CHAPTER 11

Summative Practice

Section A

1 $M = \{6, 9, 12, 15, 18\}$
$n(M) = 5$
Answer: **C**

2 $n(B') = 19 - 11$
$= 8$
Answer: **B**

3 $E = \{52, 56, 60, 64, 68, 72, 76\}$
$F = \{54, 63, 72\}$
$G = \{60, 72\}$
$n(E) = 7$
$n(F) = 3$
$n(G) = 2$
$n(E) + n(F) + n(G) = 7 + 3 + 2$
$= 12$
Answer: **D**

4 $E = \{52, 56, 60, 64, 68, \mathbf{72}, 76\}$
$F = \{54, 63, \mathbf{72}\}$
$G = \{60, \mathbf{72}\}$
Answer: **D**

5 $\xi = \{16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30\}$
$K = \{20, 30\}$
$J = \{20, 25, 30\}$
Maka, $\{16 \leqslant x \leqslant 30\}$
Answer: **A**

6 $K = \{20, 30\}$
$J = \{20, 25, 30\}$
Maka, $K \subset J$
Answer: **A**

Section B

1 $R = \{1, 2, 3, 4, 6, 8, 12, 18, 24, 36, 48, 72, 144\}$

(a) $7 \underline{\notin} R$

(b) $12 \underline{\in} R$

(c) $15 \underline{\notin} R$

(d) $48 \underline{\in} R$

2 (a) ✗ (b) ✓
(c) ✓ (d) ✗

3 (a) $P \underline{=} Q'$

(b) $R \underline{\subset} Q$

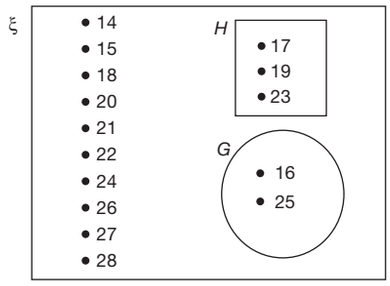
(c) $n(Q) \underline{>} n(R)$

(d) $(P + Q) \underline{=} \xi$

Section C

1 (a) (i) $X = \{\text{L, A, T, I, H, N}\}$
$n(X) = 6$
(ii) $Y = \{\text{a, e, i , o, u}\}$
$n(Y) = 5$

(b) (i) $G = \{16, 25\}$
(ii)



(c) (i) $\xi = \{9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20\}$
$M = \{12, 18\}$
$N = \{9, 12, 18\}$
$M \subset N$
(ii)