

100年公務人員特種考試一般警察人員考試、  
100年公務人員特種考試警察人員考試及  
100年特種考試交通事業鐵路人員考試試題

等 別：佐級鐵路人員考試

類 科：機械工程

科 目：機械工程製圖大意

考試時間：1 小時

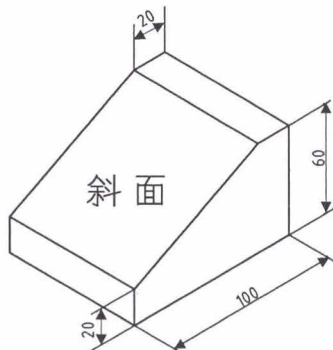
座號：\_\_\_\_\_

※注意：(一)本試題為單一選擇題，請選出一個正確或最適當的答案，複選作答者，該題不予計分。

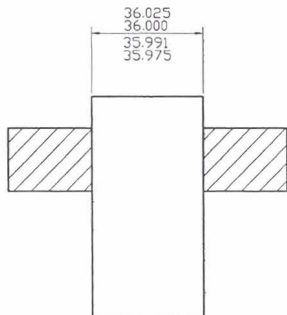
(二)本科目共 40 題，每題 2.5 分，須用 2B 鉛筆在試卡上依題號清楚劃記，於本試題上作答者，不予計分。

(三)禁止使用電子計算器。

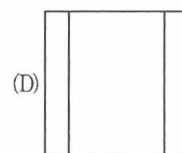
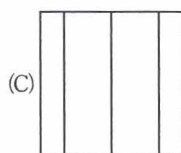
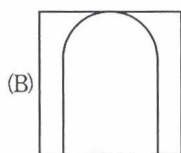
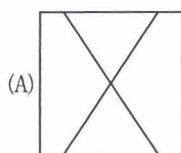
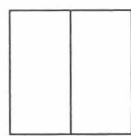
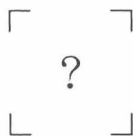
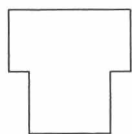
- 根據第一角法所繪製之視圖，其俯視圖會放置於前視圖的：  
(A)上方 (B)下方 (C)右方 (D)左方
- 視圖中如果有不同種類的線條重疊，最優先繪製的是：  
(A)中心線 (B)尺度線 (C)輪廓線 (D)剖面線
- 下列視圖中，那一種視圖不能夠表達物體或是機件的高度尺度？  
(A)前視圖 (B)右側視圖 (C)俯視圖 (D)後視圖
- 在局部剖面的剖視圖中，剖視與非剖視部分的分界線以折斷線畫之，折斷線是以什麼式樣的線條繪製？  
(A)粗實線 (B)細實線 (C)一點鏈線 (D)虛線
- 空間中有一線段不垂直也不平行於主要投影面，該線段的實際長度可以在何者視圖中求得？  
(A)半視圖 (B)轉正視圖 (C)放大視圖 (D)輔助視圖
- 在尺度數字外加註括弧，例如：(X)，表示此尺度數字 X 為：  
(A)特別重要的尺度 (B)物件的總長、總寬、或是總高  
(C)供參考用的參考尺度 (D)相對於基準面的基準尺度
- 爲了能夠製造機件達到應有的精度及具有互換性，所以必須訂定機件的：  
(A)尺度 (B)註解 (C)公差 (D)配合
- 最小極限尺度與基本尺度之差，亦即是：  
(A)上偏差 (B)下偏差 (C)最大公差 (D)最小公差
- 若一軸與一孔相互套接在一起，如果希望要有餘隙配合，下列那一項必須成立？  
(A)軸的最大極限尺度必須大於相配合的孔的最大極限尺度  
(B)軸的最小極限尺度必須大於相配合的孔的最大極限尺度  
(C)軸的最大極限尺度必須小於相配合的孔的最小極限尺度  
(D)孔的最小極限尺度必須小於相配合的軸的最大極限尺度
- 依據 CNS 工程製圖標準，正齒輪中的節圓以下列何者線條繪製？  
(A)細實線 (B)一點細鏈線 (C)一點粗鏈線 (D)兩點細鏈線
- 下圖爲一物體之等角圖，求出斜面的正確斜度：  
(A)1 : 2  
(B)1 : 2.5  
(C)1 : 3  
(D)1 : 4



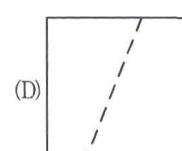
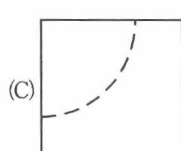
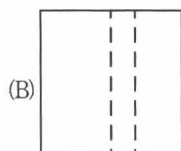
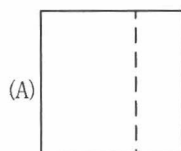
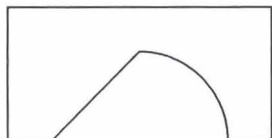
- 12 已知一正立方體之實際體積為  $1\text{m}^3$ ，若工作圖之比例為 1:100，則工作圖上邊長之繪製長度為何？  
 (A) 1mm (B) 10mm (C) 100mm (D) 1000mm
- 13 依據 CNS 工程製圖標準，一機械零件之尺度若與其他零件組合有關，則該尺度屬於下列何者？  
 (A) 功能尺度 (B) 非功能尺度 (C) 參考尺度 (D) 多餘尺度
- 14 一螺紋之尺度標註為 2N M10×1.5，求出該螺紋的導程 (lead)：  
 (A) 1.5mm (B) 2mm (C) 3mm (D) 5mm
- 15 依據下圖之尺度標註，求出最小間隙，單位為 mm：  
 (A) 0.034mm  
 (B) 0.050mm  
 (C) 0.009mm  
 (D) 0.025mm



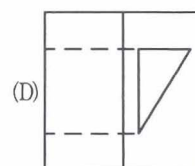
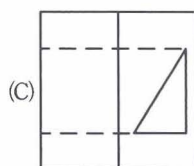
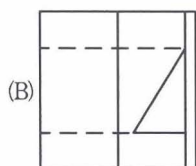
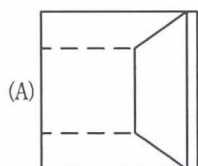
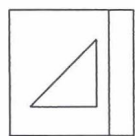
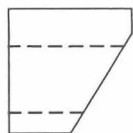
- 16 在下圖中，利用第三角法繪製一物體的正投影視圖，何者為所缺少的前視圖？



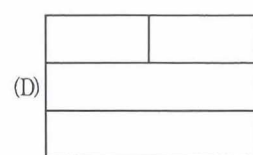
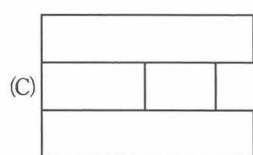
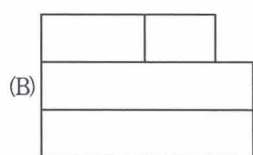
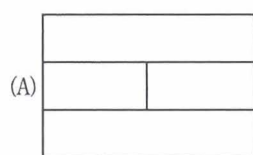
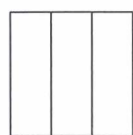
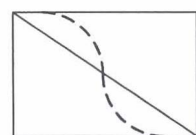
- 17 在下圖中，利用第三角法繪製一物體的正投影視圖，何者為所缺少的右側視圖？



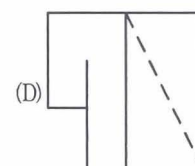
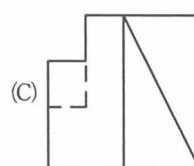
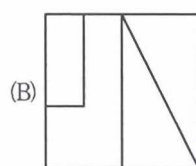
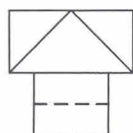
18 在下圖中，利用第三角法繪製一物體的正投影視圖，何者為所缺少的前視圖？



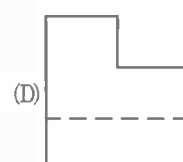
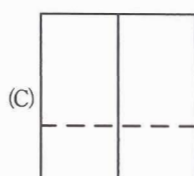
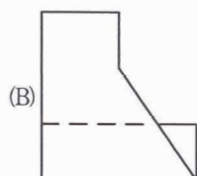
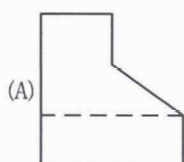
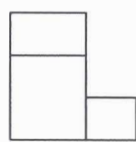
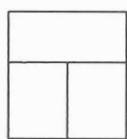
19 在下圖中，利用第三角法繪製一物體的正投影視圖，何者為所缺少的俯視圖？



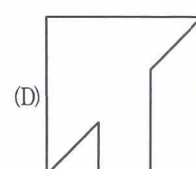
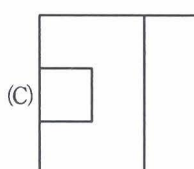
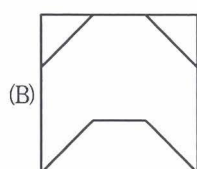
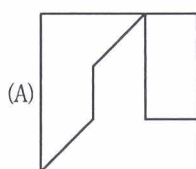
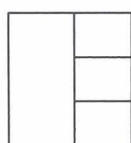
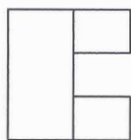
20 在下圖中，利用第三角法繪製一物體的正投影視圖，何者為所缺少的右側視圖？



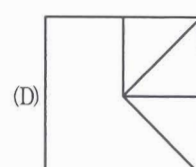
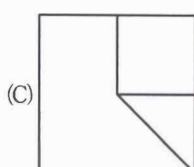
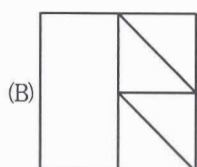
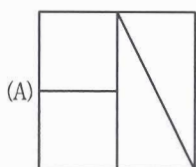
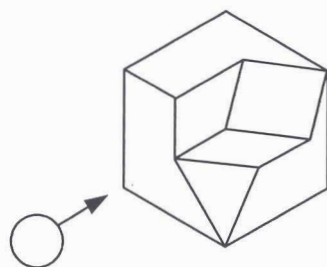
21 在下圖中，利用第三角法繪製一物體的正投影視圖，何者為所缺少的前視圖？



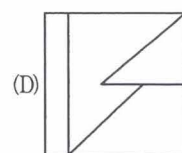
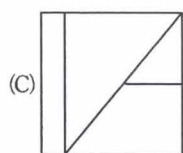
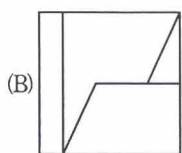
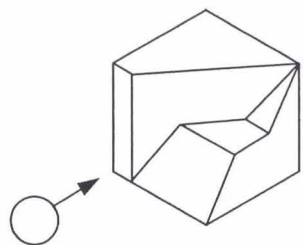
22 在下圖中，利用第三角法繪製一物體的正投影視圖，何者為所缺少的右側視圖？



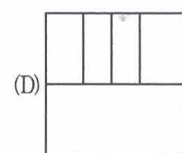
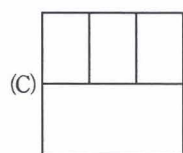
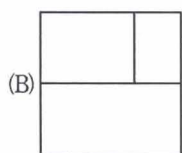
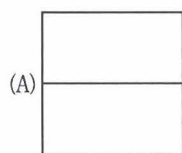
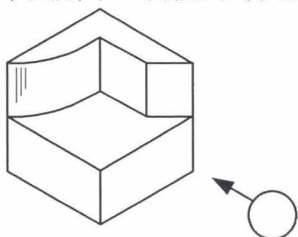
23 下圖所示一物體的等角圖，選出在箭頭指示方向的正確投影視圖：



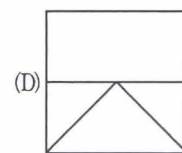
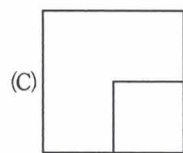
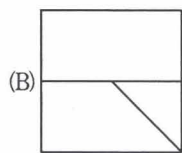
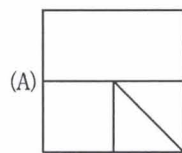
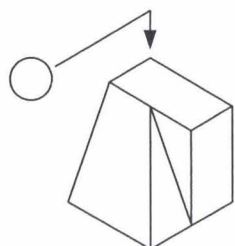
24 下圖所示一物體的等角圖，選出在箭頭指示方向的正確投影視圖：



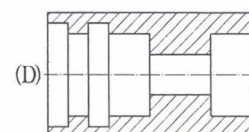
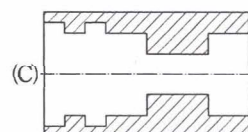
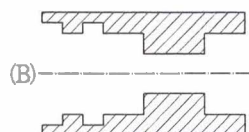
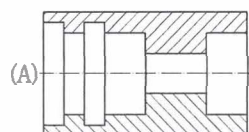
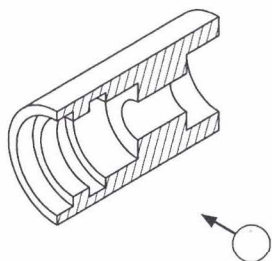
25 下圖所示一物體的等角圖，選出在箭頭指示方向的正確投影視圖：



26 下圖所示一物體的等角圖，選出在箭頭指示方向的正確投影視圖：

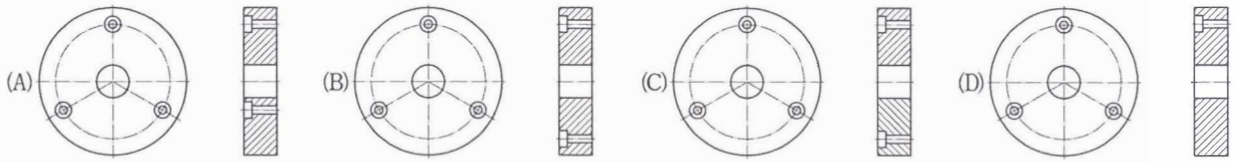


27 已知一物體之等角圖，請依箭頭指示方向，選出正確之剖視圖：

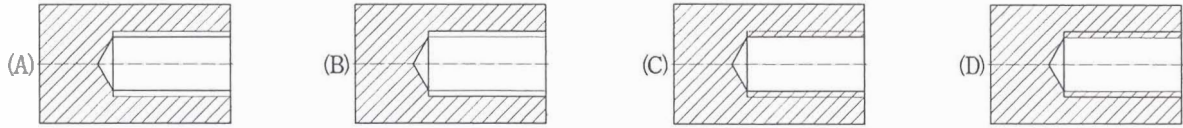




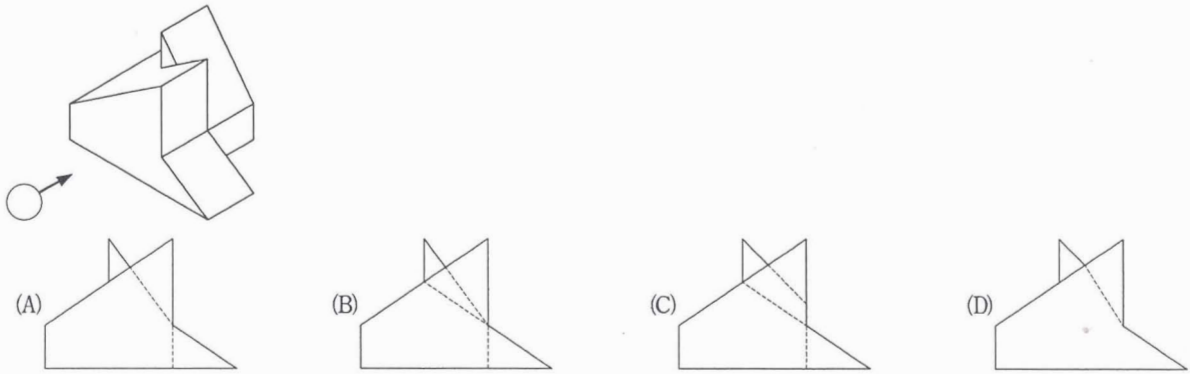
28 下列各剖視圖中，何者為標準之剖視圖表示法？



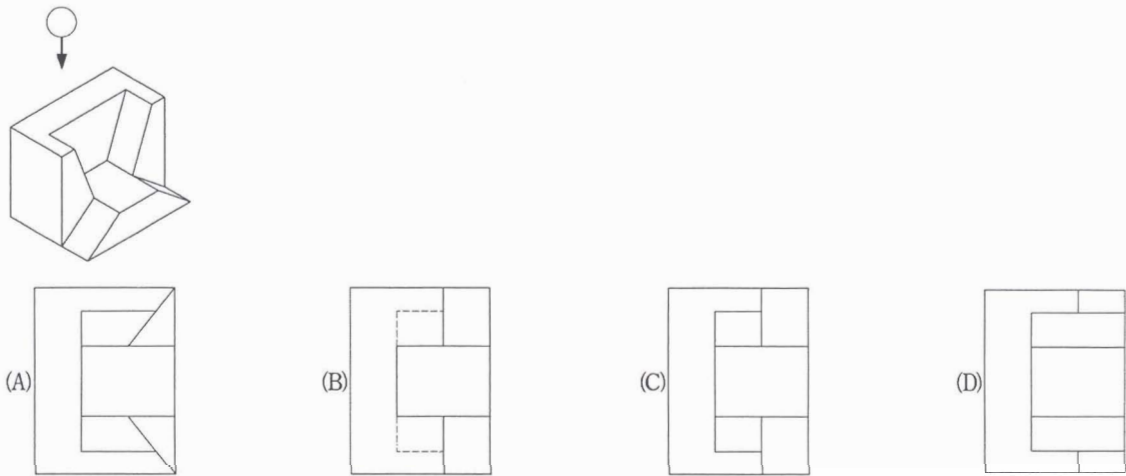
29 依據 CNS 工程製圖標準，下列何者為內螺紋之表示法？



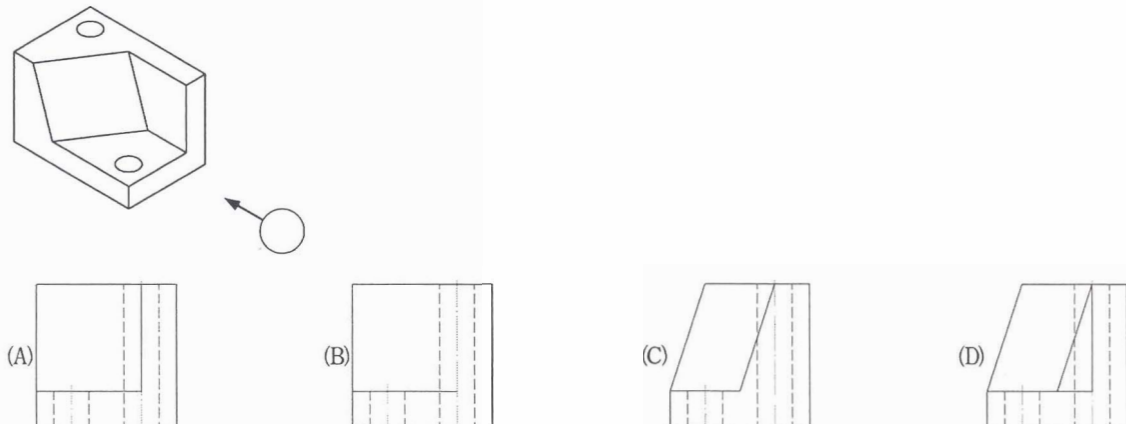
30 下圖為一物體之等角圖，請依箭頭指示方向，選出正確之投影視圖：



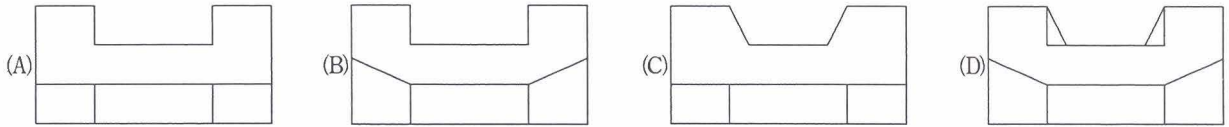
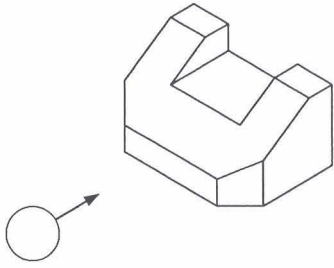
31 下圖為一物體之等角圖，請依箭頭指示方向，選出正確之投影視圖：



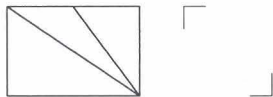
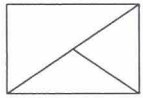
32 下圖為一物體之等角圖，請依箭頭指示方向，選出正確之投影視圖：



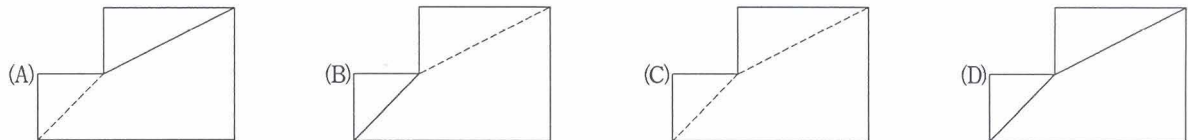
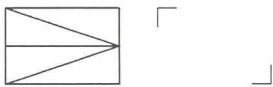
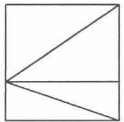
33 下圖為一物體之等角圖，請依箭頭指示方向，選出正確之投影視圖：



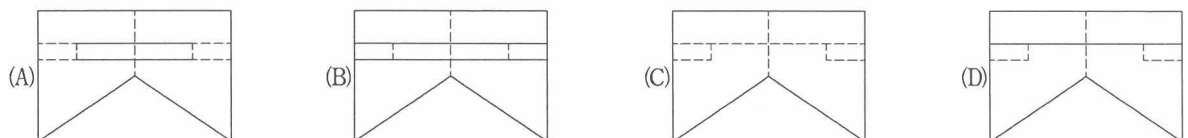
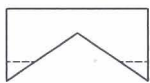
34 下圖為利用第三角法繪製一物體之前視圖和俯視圖，何者為此物體正確之右側視圖？



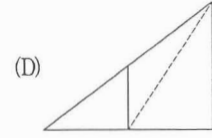
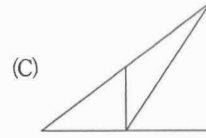
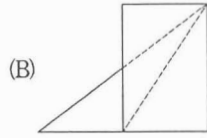
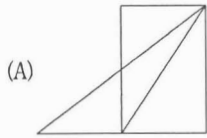
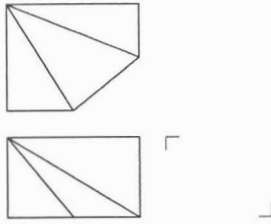
35 下圖為利用第三角法繪製一物體之前視圖和俯視圖，何者為此物體正確之右側視圖？



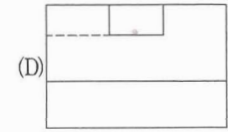
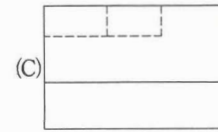
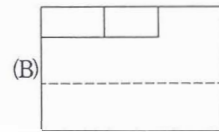
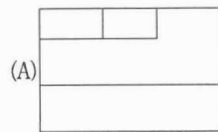
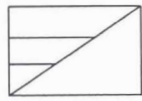
36 下圖為利用第三角法繪製一物體之前視圖和左側視圖，何者為此物體正確之俯視圖？



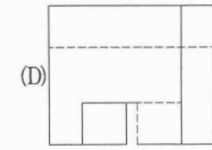
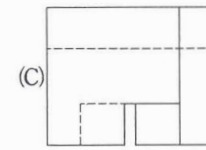
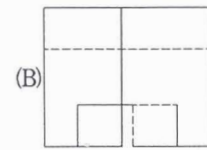
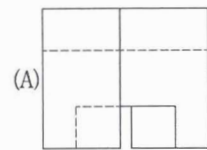
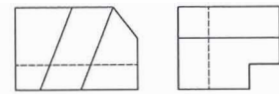
37 下圖為利用第三角法繪製一物體之前視圖和俯視圖，何者為此物體正確之右側視圖？



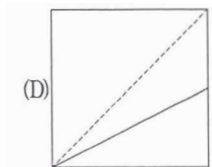
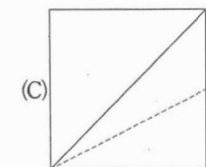
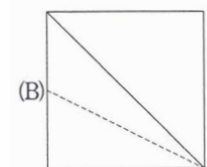
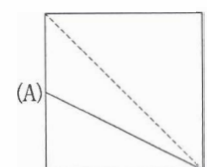
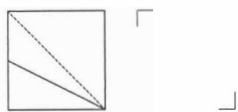
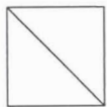
38 下圖為利用第三角法繪製一物體之右側視圖和俯視圖，何者為此物體正確之前視圖？



39 下圖為利用第三角法繪製一物體之前視圖和右側視圖，何者為此物體正確之俯視圖？



40 下圖為利用第三角法繪製一物體之前視圖和俯視圖，何者為此物體正確之右側視圖？





# 測驗題標準答案更正

考試名稱：100年公務人員特種考試一般警察人員考試、公務人員特種考試警察人員考試及特種考試交通事業鐵路人員考試

類科名稱：機械工程

科目名稱：機械工程製圖大意(試題代號：4906)

題數：40題

標準答案：答案標註#者，表該題有更正答案，其更正內容詳見備註。

題號	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
答案	B	C	C	B	D	C	C	B	C	B	A	B	A	C	C	D	A	C	#	A

題號	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
答案	B	D	C	B	B	B	D	B	C	A	C	A	B	C	A	D	B	D	C	B

題號																				
答案																				

題號																				
答案																				

題號																				
答案																				

備註：第19題答B或D或BD者均給分。