

桃園市立大有國民中學 113 學年度第一學期第二次評量 解答

年級	九年級	考試科目	數學		命題範圍	第五冊 1-4-2-2 第四冊	作答時間	45 分
班級		姓名		座號	分數			

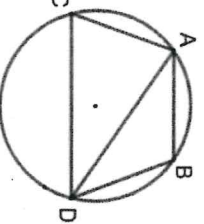
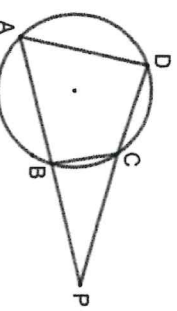
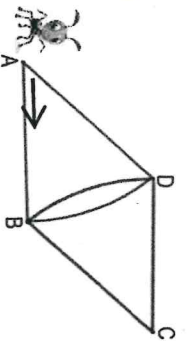
一、選擇題：40 分

1	2	3	4	5	6	7	8	9	10
D	B	C	C	A	B	B	D	D	A

二、填充題：40 分

(1)	(2)	(3)	(4)	(5)
$6\sqrt{3}$	$18\sqrt{3}$	35	$\frac{12}{13}$	142
(6)	(7)	(8)	(9)	(10)
56	123	32	$12\pi - 9\sqrt{3}$	$\frac{625}{64}\pi$

三、計算題：20 分

1.	2.
$\widehat{CD} = 2\angle CAD = 2 \times 65^\circ = 130^\circ$ (1/5) $\widehat{AB} = 2\angle ADB = 2 \times 35^\circ = 10^\circ$ (1/5) $\therefore \widehat{AB} \parallel \widehat{CD}$ $\therefore \widehat{AC} = \widehat{BD} = \frac{1}{2}(360^\circ - 130^\circ - 10^\circ) = 80^\circ$ (3/5) 	$\therefore ABCD$ 為圓內接四邊形 $\therefore \angle A + \angle BCD = 180^\circ$ (1/5) $\angle A + 2\angle A = 180^\circ$ $\angle A = 60^\circ$ (2/5) $\angle D = 180^\circ - (\angle A + \angle A)$ $= 180^\circ - (60^\circ + 60^\circ)$ $= 120^\circ$ (2/5) 
3.	4.
$\widehat{BD} = 2 \times 8 \times \pi \times \frac{45^\circ}{360^\circ}$ $= 2\pi$ (2/5)  路徑長 = $\frac{4 \times 8}{1} + \frac{2 \times 2\pi}{1}$ (1/5) $= 32 + 4\pi$ (1/5)	$\overline{PB} = 170 - 50 = 120 = \overline{QC}$ $\overline{ED} = 350 - 50 = 300$ $\overline{AB} : \overline{AB} = \overline{PB} : \overline{ED}$ $\frac{300}{\overline{AB}} = \frac{120}{300}$ (1/5) $\overline{AB} = 750$ (1/5) $\overline{AC} : \overline{AD} = \overline{QC} : \overline{FD}$ $\frac{500}{\overline{AD}} = \frac{120}{\overline{FD}}$ (1/5) $\overline{FD} = 180$ (1/5) 