

1-5 ACBBC

6-10 CDCAC

11-15 CDBBD

16-20 ADCCC

21-25 BACAD

26-30 DCCCD

31-35 ABDAD

36-40 DBDCB

第三次段考解答+錄音稿

第一部分 聽力測驗：30 分

(一)辨識句意：選出符合句子描述的圖片(10%)

Q1: The boy who is setting the tables usually gives away food to the poor in the town.

Q2: This is the apartment we plan to move into. But the problem is the high price

Q3: Jimmy is the doctor who has short hair and long legs. The man next to him is the nurse who has worked with him for ten years.

Q4: Henry likes the girl with glasses and long hair.

Q5: The boy who is looking up words in the dictionary is Peter. He's doing the Chinese homework.

(二)基本問答：選出最適合的回答，完成對話(10%)

Q6: Mike looks very excited and has been dressing up in the bathroom for an hour.

Q7: Sorry. Taking photos is not allowed here.

Q8:(M) Are we going to the airport by bus or by train?

(W) It's around 2 o'clock. I don't think we can get there on time if we don't take a taxi. Let's hurry.

Q9: Sam looks troubled, but he just wouldn't talk to anyone.

Q10: The man with an umbrella is our math teacher, Mr. Lee.

(三)言談理解：請聽對話或短文，選出問題最適合的答案(10%)

Q11:

(B) Mom, I'm afraid that if I tell you what I want to be when I grow up, you will be mad.

(W) No, I won't, except if you want to be a bad guy.

(B) I have been interested in planting vegetables and fruits since I was young.

(W) Great! Keep learning and become a happy farmer in the future.

Question: Why does the boy want to be a farmer?

Q12:

M: Is this the book that you like?

W: Of course. It is very popular with teenagers.

M: But where did you buy it? I can't find it anywhere.

W: Luckily, I went to the Elite Bookstore a few days ago, and this was the last one left.

M: Maybe I can go there to see if there is one more.

Q: Which is NOT true?

Q13:

(M) We need to change the picnic plan. A typhoon is coming, and it will be rainy this weekend.

(W) How about designing a game our kids may be interested in?

(M) Can we? It's too difficult for me.

(W) With Sonic Thoughts, we can design games easily. By following the tips it provides, we can make a simple game in one or two hours.

(M) Are you sure? And how much should we spend buying it?

(W) It is free for the first week after we download it.

(M) Sounds great!

Question: What may "Sonic Thoughts" be?

Q14:

W: Hello, Robert. I am glad to finally meet you. You are the friend who Mike talks about all the time.

M: I am glad to meet you, too. But sorry, I am late. I just finished my work half an hour ago.

W: No worries. It is actually polite to be a little bit late in our culture. The party is this way. Let's go!

Q: Which is NOT true?A

Q15:

(W) How's your new job, Peter?

(M) It's tiring and boring. I almost work twelve hours a day. I clean the table, wash the dishes, and take care of my boss's dogs!

(W) May I ask if this is the job that you really want to do?

(M) No, it isn't. Finding a job is not easy for me because I am a guy who is good at nothing.

(W) I think you should go back to school and learn more. You enjoy designing clothes, don't you?

(M) Yes. I have to think more about my future.

Question: Which is true about Peter?

- | | |
|-------|-------|
| 1-5 | BACBA |
| 6-10 | CAABC |
| 11-15 | BCBCA |
| 16-20 | DACBC |
| 21-25 | ADBAD |
| 26-30 | DCADA |
| 31-35 | CBDBD |
| 36-40 | CABCC |
| 41-45 | DAABC |
| 46-50 | ADACB |
| 51-55 | ADDBC |
| 56-57 | CA |

臺北市立長安國中113學年度第一學期第三次定期評量
九年級普通班數學科 解答 (範圍：3-1~3-2)

一、基礎選擇題 (64 分；每題 4 分)

1~10 CBDBD ADCAC

11~16 ADABD B

二、進階選擇題 (21 分；每題 3 分)

17~23 BACD CBA

三、非選題

1	<p>設 $a=x-d$, $b=x$, $c=x+d \rightarrow (x+d)^2=(x-d)^2+x^2$</p> <p>$x^2+2xd+d^2=x^2-2xd+d^2+x^2 \rightarrow 0=x^2-4xd$ 2 分</p> <p>$x(x-4d)=0 \rightarrow x=0(\text{不合}) \text{ or } x=4d$</p> <p>$\therefore a=x-d=3d, b=x=4d, c=x+d=5d$</p> <p>故 $a:b:c=3d:4d:5d=3:4:5$ 得證 2 分</p>
2	<p>(1) 在 $\triangle ABH$ 和 $\triangle ADC$ 中</p> <p>$\therefore \begin{cases} \angle B = \angle D = \frac{1}{2}\widehat{AC} \\ \angle AHB = \angle ACD = 90^\circ \end{cases}$</p> <p>$\therefore \triangle ABH \sim \triangle ADC$ (AA 相似) 4 分</p> <p>(2) 設 $\overline{HC}=x$ 公尺，則 $\overline{BH}=(21-x)$ 公尺</p> <p>利用畢氏定理，可得 $\overline{AH}^2=10^2-x^2=17^2-(21-x)^2$ 2 分</p> <p>$(x^2-42x+441)-x^2=289-100, 42x=441-189, x=\frac{252}{42}=6$</p> <p>$\rightarrow \overline{AH}=\sqrt{10^2-6^2}=8(\text{公尺})$ 2 分</p> <p>(3) $\because \triangle ABH \sim \triangle ADC, \therefore \frac{\overline{AB}}{\overline{AD}} = \frac{\overline{AH}}{\overline{AC}}$</p> <p>$\overline{AD} = \frac{7 \times 10}{8} = \frac{85}{4}, \overline{AO} = \frac{1}{2}\overline{AD} = \frac{1}{2} \times \frac{85}{4} = \frac{85}{8}$ 3 分</p>

臺北市立長安國民中學 113 學年度第一學期第 3 次定期評量

九年級普通班自然科 解答

1 C	11 B	21 A	31 D
2 B	12 D	22 A	32 A
3 A	13 A	23 B	33 B
4 A	14 B	24 C	34 A
5 A	15 C	25 B	35 C
6 B	16 A	26 C	36 D
7 D	17 C	27 D	37 C
8 B	18 A	28 B	38 A
9 A	19 B	29 C	39 D
10 C	20 C	30 C	40 C

一、 單選題（共 50 題，每題 2 分，共 100 分）

1--10 CCDBA CBDBA

11--20 ABDBC DBBCD

21--30 ACCAA DABDD

31--40 ADBCA DBBCB

41--50 CDADB ACDAC