

I'm not robot  reCAPTCHA

[Continue](#)

Test 1, Paper 1: Reading (page 5)

- Part 1: A varied career**
- C: Chloe is known for her slightly quirky sense of fashion and, of course, she looks great.
 - A: the smell of fresh-baking greets us ... Chloe's been busy
 - D: It was too much to take in at nineteen, if I'd stayed longer, I might have settled in better.
 - B: Singing with a hairbrush in front of the mirror, dreaming of being a star one day.
 - C: I fell as I climbed up the ladder and cracked three ribs.
 - D: while recovering from her injuries ... Chloe hit upon the idea of staging ... vintage fairs.
 - A: Chloe had always loved vintage clothes, particularly from the 1950s.
 - B: we had so many compliments, I decided to go ahead with more

- Part 2: In defence of women's boxing**
- G: 'It' refers to 'the competition'.
 - H: 'what this meant' refers to being accepted on to the programme.
 - B: 'that target' refers to the flyweight category.
 - C: 'the space-age training kit' refers to the titanium-based clothing range.
 - F: 'that's why' refers to 'We approach it more as a skill and point-scoring exercise'.
 - E: 'those events' refers to 'martial arts such as taekwondo and judo'.
 - D: 'that mistake' refers to 'people confuse amateur boxing competitions with professional fights'.

- Part 3: Solo travel in Australia**
- C: meal times are something I've never really got to grips with
 - A: it's great to have the freedom to go with the flow.
 - B: got an agency to take care of all the arrangements
 - D: I want to accept that some people have different attitudes to mime
 - A: a fortnightly email home ... really cheered me up.
 - D: enhanced my independence and helped me feel more self-assured.
 - D: I fell out with the people I'd met along the way
 - A: 'What have I let myself in for?'
 - C: do what you like ... without having to convince anybody else that it's a good idea.
 - B: you've probably got lots of ideas in common.
 - D: the pressure that you're under to make your own mind up about everything.
 - A: catching the next bus when you're ready to move on
 - C: stay in the nicest places your budget permits.
 - C: try a short trip to begin with, just in case it's not for you.
 - B: the support of the group leader.

The total score is adjusted to give a mark out of 20.

Test 1, Paper 2: Writing (page 12)

Part 1

Question 1 (email)
 Style: informal
 Content: 1 suggest places to explore and best public transport options
 2 details of interesting museums or exhibitions
 3 agree but explain limited time
 4 accept DVD idea and say which one

Part 2

Question 2 (story)
 Style: semi-formal or neutral
 Content: 1 what Peter did when he read the message
 2 how the story developed
 3 how it ended

Question 3 (essay)
 Style: formal or neutral
 Content: different ways to help protect and improve the environment, with reasons to support opinions

Question 4 (letter of application)
 Style: formal
 Content: 1 reasons for wanting to attend the course
 2 experience of acting and/or dancing
 3 detailed availability for attending

Question 5(a) (essay)
 Style: formal
 Content: description of a character who often gets into trouble, (a) saying when this happens, (b) giving reasons why it happens and (c) explaining how the character deals with those problems.

Question 5(b) (review)
 Style: formal
 Content: 1 enjoyable aspects of the novel
 2 opinion about age group who would enjoy it most, with reasons and examples from the novel

The total score is adjusted to give a mark out of 20.

ANSWER KEY

For: By: Along

1. The ...
 2. The ...
 3. The ...
 4. The ...
 5. The ...
 6. The ...
 7. The ...
 8. The ...
 9. The ...
 10. The ...
 11. The ...
 12. The ...
 13. The ...
 14. The ...
 15. The ...
 16. The ...
 17. The ...
 18. The ...
 19. The ...
 20. The ...
 21. The ...
 22. The ...
 23. The ...
 24. The ...
 25. The ...
 26. The ...
 27. The ...
 28. The ...
 29. The ...
 30. The ...

9-4 Practice

Solving Quadratic Equations by Using the Quadratic Formula

Solve each equation by using the Quadratic Formula. Round to the nearest tenth if necessary.

- $x^2 + 2x - 3 = 0$ **-3, 1**
- $a^2 + 8a + 7 = 0$ **-7, -1**
- $v^2 - 4v + 6 = 0$ **∅**
- $d^2 - 6d + 7 = 0$ **1.6, 4.4**
- $2x^2 + 9x - 5 = 0$ **-5, 1/2**
- $2r^2 + 12r + 10 = 0$ **-5, -1**
- $2b^2 - 9b = -12$ **∅**
- $2h^2 - 5h = 12$ **-1/2, 4**
- $3p^2 + p = 4$ **-1/3, 1**
- $3m^2 - 1 = -8m$ **-2.8, 0.1**
- $4y^2 + 7y = 15$ **-3, 1/4**
- $1.6n^2 + 2n + 2.5 = 0$ **∅**
- $4.5t^2 + 4t - 1.5 = 0$ **-1.2, 0.3**
- $1/2 c^2 + 2c + 3/2 = 0$ **-3, -1**
- $3w^2 - 3/4 w = 1/2$ **-0.3, 0.6**

State the value of the discriminant for each equation. Then determine the number of real roots of the equation.

- $a^2 + 8a + 16 = 0$ **0; 1 real root**
- $c^2 + 3c + 12 = 0$ **-39; no real roots**
- $2x^2 + 12x = -7$ **88; 2 real roots**
- $2u^2 + 15u = -30$ **-15; no real roots**
- $4n^2 + 9 = 12n$ **0; 1 real root**
- $3g^2 - 2g = 3.5$ **46; 2 real roots**
- $2.5k^2 + 3k - 0.5 = 0$ **14; 2 real roots**
- $3/4 d^2 - 3d = -4$ **-3; no real roots**
- $1/4 s^2 = -s - 1$ **0; 1 real root**

CONSTRUCTION For Exercises 25 and 26, use the following information.
 A roofer tosses a piece of roofing tile from a roof onto the ground 30 feet below. He tosses the tile with an initial downward velocity of 10 feet per second.

25. Write an equation to find how long it takes the tile to hit the ground. Use the model for vertical motion, $H = -16t^2 + vt + h$, where H is the height of an object after t seconds, v is the initial velocity, and h is the initial height. (*Hint:* Since the object is thrown down, the initial velocity is negative.) **$H = -16t^2 - 10t + 30$**

26. How long does it take the tile to hit the ground? **about 1.1 s**

27. **PHYSICS** Lupe tosses a ball up to Quyen, waiting at a third-story window, with an initial velocity of 30 feet per second. She releases the ball from a height of 6 feet. The equation $h = -16t^2 + 30t + 6$ represents the height h of the ball after t seconds. If the ball must reach a height of 25 feet for Quyen to catch it, does the ball reach Quyen? Explain. (*Hint:* Substitute 25 for h and use the discriminant.) **No; the discriminant, -316, is negative, so there is no solution.**

