Primary Six
Mathematics
Continual Assessment Two

Section A (5 x 1 mark) (10 x 2 marks)
For each question, choose the correct answer and write the option (1, 2, 3 or 4) in the box.

1. Round off 27 389 to the nearest thousand.
   (1) 27 000   (2) 27 100
   (3) 27 400   (4) 28 000

2. The figure below is not drawn to scale. Which one of the following statements is true?

   (1) $\angle x = \angle b + \angle c$ (2) $\angle x = \angle a + \angle b$
   (3) $\angle x = \angle d + \angle e$ (4) $\angle x = \angle a + \angle c$

3. George bought a chair and a CD for $45. If the chair costs $13 more than the CD, what is the cost of the CD?
   (1) $16   (2) $26
   (3) $29   (4) $32

4. Express 2l 5ml in litres.
   (1) 2 0005l (2) 2.005l
   (3) 2 05l (4) 25l

5. When a number is divided by 15, it leaves a quotient of 23 and a remainder of 8. What is the number?
   (1) 143   (2) 199
   (3) 345   (4) 353

6.

x cm

8cm

Express the perimeter of the rectangle in terms of x.

(1) 8x cm   (2) (8 + x) cm
(3) 16x cm   (4) (16 + 2x) cm

7. Alvin and his sister saved a total of $98. His brother saved $121. What was the average amount saved?

(1) $219   (2) $23
(3) $73   (4) $49

8. In the figure, PQRS is a rectangle. A and B are the mid-points of PQ and Ps respectively. What fraction of the figure is **shaded**?

(1) $^1/_4$ (2) $^3/_8$
(3) $^1/_3$ (4) $^1/_2$

9. The ratio of Adrian's age to Samuel's age is 9:5. If Samuel is 15 years old, how much older is Adrian?

(1) 6 years   (2) 10 years
(3) 12 years   (4) 27 years

10. $^1/_5$ of a number is 15. What is $^3/_5$ of the number?

(1) 5   (2) 18
(3) 45   (4) 75

11. A tank measuring 50cm by 20 cm by 36 cm is 75% filled with water. How much water must be removed to make the tank 0.25 full?

(1)   9 000 cm^3 (2) 18 000 cm^3
(3) 27 000 cm^3 (4) 36 000 cm^3

12. At a camp there are 18 fewer girls than boys. The number of girls is 40% of the total number of pupils. How many pupils are there at the camp?
   (1) 126 (2) 90
   (3) 54 (4) 36

13. Sean had 75 stamps and Martin had 65 stamps. After Sean gave some stamps to Martin, the ratio of the number of stamps Sean had to the number of stamps Martin had was 3:4. How many stamps did Sean give to Martin?
   (1) 10 (2) 15
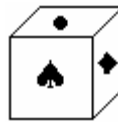   (3) 60 (4) 80

14. Which cube can be formed from the net shown below?
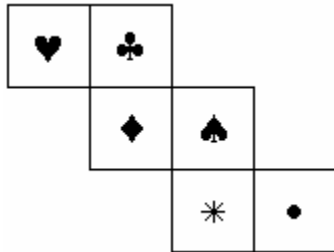
   (1)
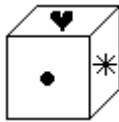
   (2)
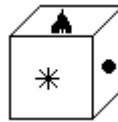
   (3)
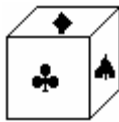
   (4)

15. Jimmy and his friends started cycling at 6:15 am. By 8 am, they had covered a distance of 14 km. Find their average speed.
   (1) 8 km/h (2) 11 km/h
   (3) 14 km/h (4) 24 $\frac{1}{2}$ km/h

Section B (20 x 1 mark)
Read the questions carefully and write down your answers in the space provided.

16. Write down the numeral of three hundred and ten thousand, eight hundred and twenty.

_____

17. Find the value of 36 – (14 + 8 ÷ 2) + 6.

18. How many grams are there in 0.08 kg?

19. Express $^2/_7$ of 210 cm in metres.

20. Express 1 h 30 min as a fraction of 3h.

21. The area of a square is 64 cm^2. What is the perimeter of the square?

22. Write 5.06 as mixed number in its simplest form.

23. Siti was paid $4.50 for an hour of work. She worked 7 hours on Monday. How much was she paid on Monday?

24. The solid below is made up 2-cm cubes. What is the volume of the solid?
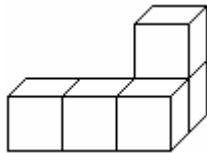
25. $^2/_3$ of the children are Chinese . $^3/_5$ of the Chinese children are girls. What fraction of the children are Chinese girls?

26. Draw 2 more units shapes to the tessellation.
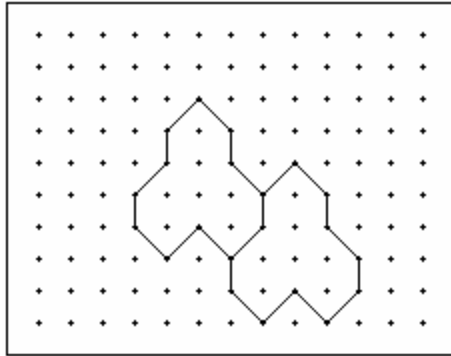
27. Evaluate 17.3 x 29.

28. Find the average value of 2.94, 2.03 and 2.87. Leave your answer correct 1 decimal place.

29. Simplify 8k + 3 + k – 2.

30. Find the value of $a^3 - 5a$ when a = 3.

31. To make apple pies, Janice uses 210g of flour for every 10g of apple. How much flour will be needed for 45g of apple ?

32. The length of a rectangle is 8 cm and its breadth is 6 cm. What is the ratio of its perimeter to its length?

33. 4 gifts were given to every group of 15 people attending an exhibition. If 60 gifts were given away, how many people attended the exhibition?

34. The average of 45, 52, 39, 57, _____ is 48.

35. The normal price of a dress was $150. During a sale, the dress was sold at a 40% discount. On Christmas Eve, a further discount of 20% of the new price was given. What was the final price of the dress on Christmas Eve?

Section C (55 marks)
Read the questions carefully and answer them in the space given. Show all your working. The number of marks is shown at the end of the question in brackets.

36. 3 workers earn $2770 a month. Angie earns $150 more than Betty but $70 less than Cindy. How much does Betty earn a month? (2 marks)

37. A packet of 54 sweets was shared among Deborah, Emma, and Fanny. Deborah received $\frac{1}{6}$ of the sweets, Emma received $\frac{2}{5}$ of the remaining sweets and Fanny received the rest. How many sweets did Emma receive? (2 marks)

38. If 6 buns cost $2.40, how much will 5 packs of 9 buns cost? (3 marks)

39. Sarah has some 5-cent and 20-cent coins. She has $1.50 worth of 5-cent coins. The number of 20-cent coins she has is 4 times the number of 5-cent coins. How much is her 20-cent coins worth altogether? (3 marks)

40. Box X and Box Y have the **same** number of apples. The ratio of the number of red apples in Box X to the number of red apples in Box Y is 3:1. The ratio of the number of green apples in Box X to the number of green apples in Box Y is 1:2. Find the ratio of the number of red apples to the number of green apples in Box X. (3 marks)

41. Mrs Sim makes lemonade for sale and pours them into k small bottles and k big bottles. Each small bottle contains 500 `ml` of lemonade and each big bottle contains 3 times as much lemonade as a small bottle.
(a) Express the amount of lemonade Mrs Sim makes in terms of k. (2 marks)
(b) If k = 5, find the amount of lemonade Mrs Sim makes, leaving your answer in millilitres. (1 mark)

42. The line graph shows the number of books loaned out from a library during a 'Read more Books' campaign from Jan to May.
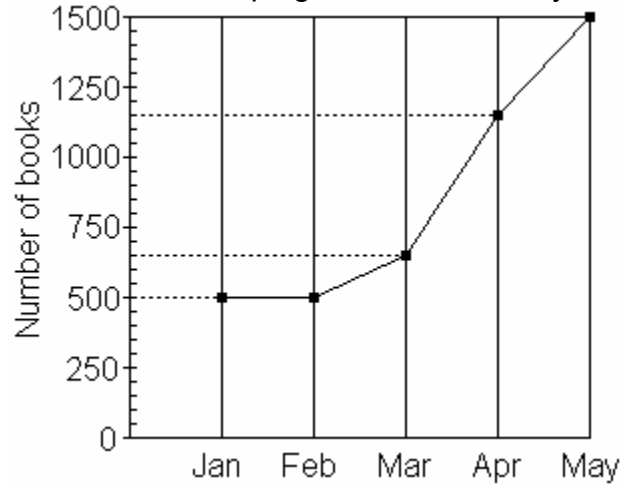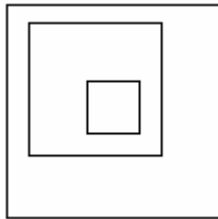

(a) How many books were loaned out in April? (1 mark)
(b) From Jan to May, what was the percentage increase in the number of books loaned out? (3 marks)

43. (a) The diagram below shows part of a figure which has the lines AB and CD as lines of symmetry. Complete the symmetric figure. (3 marks)
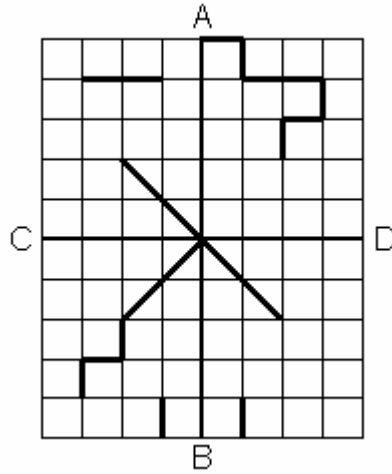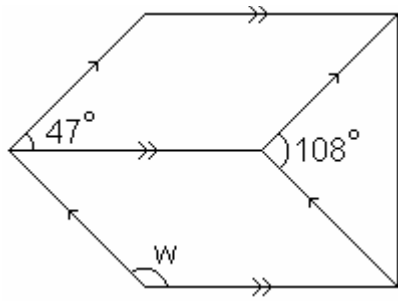

(b) Draw a line of symmetry for the figure below. (1 mark)

44. A DVD costs 4 times as much as a VCD. Herman spent $\frac{3}{8}$ of his money on 5 DVDs and 12 VCDs. He had $40 left. Find the cost of a DVD. (4 marks)

45. The following figure is not drawn to scale. Find ∠w. (4 marks)

46. Darren took 3 $\frac{1}{2}$ h to travel from Town A to Town B. His average speed for the whole journey was 80 km/h. For the first $\frac{1}{4}$ of the journey, he traveled at an average speed of 50 km/h. Find the average speed for the remaining journey. (4 marks)

47. Barry has $60 more than Andrew. If Barry gives $10 to Colin, the two of them will have the same amount of money. The amount of money Andrew has is $\frac{2}{3}$ of the amount of money Colin has.
   (a) How much money does each of them have? (3 marks)
   (b) What fraction of Barry's money is Andrew's money? (1 mark)

48. (a)

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                              A
                  B           B           B
          C       C           C           C           C
    D     D       D           D           D           D           D
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(i) Write down the next line of the pattern in the box provided. (1 mark)
(ii) How many letters will there be in row J? (1 mark)
(iii)Which row will contain 29 letters? (1 mark)

(b) In the sequence 2, 5, 8, 11, …, 2 is the 1st term, 5 is the 2nd term and 8 is the 3rd term. Find the 1000th term of this sequence. (2 marks)

49. (a) A canned drink costs $0.70 at the supermarket. It costs $1.20 at the coffee-shop. How many percent **more** does it cost at the coffee-shop? Round off your answer to the nearest one decimal place. (3 marks)

(b) Candice bought a handbag at a discount of 20%. If she paid $28 for it, what is the usual price of the handbag? (2 marks)

50. (a) Sam sold 20% of his fruits in the morning. He sold 50% of the remainder in the afternoon. Then he had 28 fruits left. How many fruits did Sam have at first? (3 marks)

(b) Jennifer saved $60. She saved $10 more than Kelly. How many percent more did Jennifer save than Kelly? (2 marks)