

**Primary Six
Mathematics
Continual Assessment One**

Section A (25 marks)

I. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) in the boxes provided.

1. Round off **5 748** to the nearest ten.

- (1) 5700
- (2) 5740
- (3) 5750
- (4) 5800

2. Find the value of $48 \div 6 \times 2 + 14$

- (1) 0.5
- (2) 18
- (3) 30
- (4) 128

3. The value of $\frac{3}{7} \div 21$ is _____.

- (1) $\frac{1}{49}$
- (2) $\frac{3}{49}$
- (3) $\frac{1}{9}$
- (4) 9

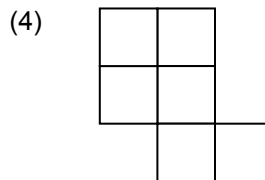
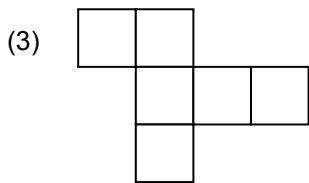
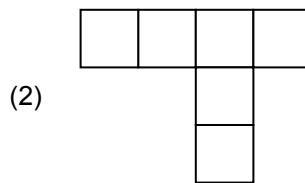
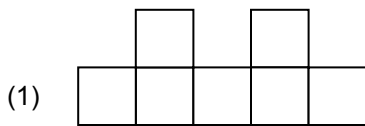
4. $9r - 4 + r + 8 =$ _____.

- (1) $10r$
- (2) $5r + 9$
- (3) $10r - 4$
- (4) $10r + 4$

5. Natalie spends 30% of her monthly salary on food. She spends another 20% of the remainder on transport and saves the rest. What percentage of her monthly salary is saved in all?

- (1) 14%
- (2) 44%
- (3) 50%
- (4) 56%

6. Which of the following is the net of the solid shown below?



7. The perimeter of a rectangular garden is 36 m. If its breadth is 7m, find its area.

- (1) 77 m²
- (2) 154 m²
- (3) 231 m²
- (4) 308 m²

8. Tom gave $\frac{7}{9}$ of his pens to Peter. The ratio of the number of pens Tom has to the number of pens Peter has is _____.

- (1) 2 : 7
- (2) 7 : 2
- (3) 7 : 9
- (4) 9 : 7

9. What is the perimeter of a rectangle which has a length of $5x$ cm and a breadth of 4 cm?

- (1) $9x$ cm
- (2) $20x$ cm
- (3) $(5x + 4)$ cm
- (4) $(10x + 8)$ cm

10. If $x = 5$, find the value of $x^2 + x$.

- (1) 10
- (2) 15
- (3) 25
- (4) 30

11. There are 24 pears and 36 oranges in a basket. Find the ratio of the number of oranges to the total number of fruits in the basket.

- (1) 2 : 3
- (2) 3 : 2
- (3) 3 : 5
- (4) 5 : 3

12. In the following figure, the ratio of the unshaded area to the shaded area is _____.



- (1) 2 : 3
(2) 3 : 2
(3) 2 : 5
(4) 5 : 2

13. Adrian has \$25. Carol has \$4 more than Adrian. Emily has 5 times as much as Carol. How much do Carol and Emily have altogether?

- (1) \$174
(2) \$199
(3) \$215
(4) \$235

14. If it takes a printer 20 minutes to print 1500 copies of a document, how many minutes would the printer take to print 1050 copies?

- (1) 6 minutes
(2) 11 minutes
(3) 14 minutes
(4) 17 minutes

15. A box containing 38 small metal balls weighed 730 g. After 14 small metal balls are taken out of the box, the total weight of the box and the remaining small metal balls is 520 g. Find the weight of the box when it is empty.

- (1) 15 g
- (2) 85 g
- (3) 100 g
- (4) 160 g

Section B (20 marks)

II. Questions 16 to 35 each carries 1 mark. Write your answers in the boxes provided. Give your answers in the units stated.

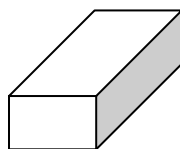
16. Express $2\frac{2}{3}$ as a decimal correct to 2 decimal places.

Ans: _____

17. How many eighths are there in $4\frac{3}{4}$?

Ans: _____

18. The solid shown below has _____ faces.



Ans: _____

19. 45% of 6 kg is _____ g.

Ans: _____

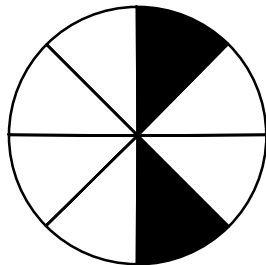
20. $32 : \boxed{} = 4 : 7$

Ans: _____

21. Tammy's height is 176 cm. Alloy's height is 165 cm. Express Alloy's height as a fraction of Tammy's height.

Ans: _____

22. What percentage of the figure is shaded?

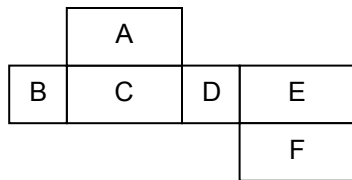


Ans: _____

23. A packet of ribbons was shared between Janice and Pamela in the ratio 5 : 8. What fraction of the total number of ribbons did Janice get?

Ans: _____

24. The following figure shows the net of a cuboid. If 'A' is its top, then its base must be '_____':



Ans: _____

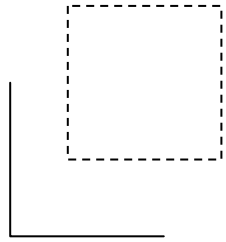
25. The usual price of a hat was \$60. At a sale, the hat was sold at a discount of 25%. How much was the discount?

Ans: _____

26. Mr Tang bought some chairs and stools. The chairs cost him \$a whereas the stools were \$15 cheaper than the chairs. How much did he pay for the chairs and stools altogether? Give your answer in terms of a.

Ans: _____

27. Complete the diagram to form a cube.



28. Alice's mother is **P** years old. Alice is 3 times younger than she is. Their total age is _____ years.

Ans: _____

29. There were 300 primary six students in a school. 165 of them were boys and the rest were girls. What percentage of the total number of students in the school were girls?

Ans: _____

30. What is the sum of the 6th multiple of 7 and the 3rd multiple of 5?

Ans: _____

31. The charges for parking a car at a carpark is as follows:

For the 1 st hour	\$2.00
For every additional half hour or part thereof	\$0.60

How much must Robert pay for parking his car there from 1.45p.m. to 7.00p.m.?

Ans: _____

32. A bag of 5 apples costs \$1.95. What is the maximum number of apples can Dennis buy with \$15?

Ans: _____

33. $\frac{5}{6}$ of Melvin's height is $\frac{7}{8}$ of Jon's height. Find the ratio of Jon's height to Melvin's height.

Ans: _____

34. $\frac{4}{7}$ of a number is greater than $\frac{4}{14}$ of the same number by 28. What is the number?

Ans: _____

35.

8	16	32	64
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3	27	81	?
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What is the missing number in the pattern shown above?

Ans: _____

Section C (55 marks)

III. For questions 36 to 50, show your working clearly in the space below each question and write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question.

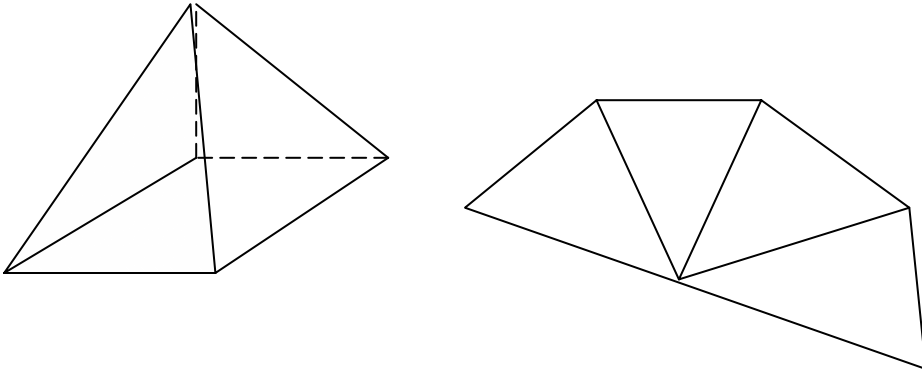
36. David's monthly salary is \$1200. He saves 35% of it and spends the rest. How much of his monthly salary does he spend?

Ans: _____[2]

37. Mrs Wong gave MeiHua and her two sisters \$x to spend on dinner. After paying \$16 for the food, the three girls decided to divide the remainder equally amongst them. How much would each girl receive?

Ans: _____[2]

38. Complete the net for the solid shown. [2]



39. Bottle A and Bottle B contained a total of 4.1 l of water. After $\frac{4}{5} \text{ l}$ of water in Bottle A and 500 ml of water in Bottle B had been poured out, each of the two bottles had the same amount of water left. How much water was there in Bottle A at first? (Give your answer in litres.)

Ans: _____ [3]

40. Evan would have to mix 1 glass of lemon juice and 5 glasses of water in order to make a lemonade drink. If Evan uses 9 glasses of lemon juice, and follows the same recipe, how many glasses of lemon juice and water are needed in all?

Ans: _____[3]

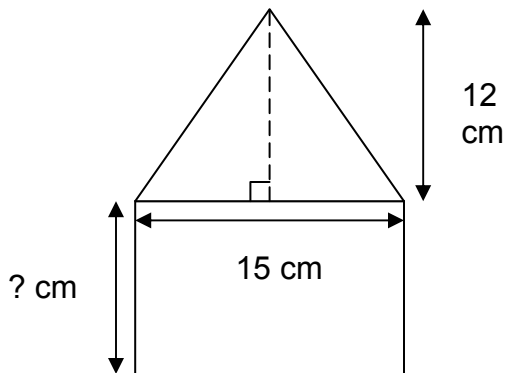
41. Mrs Lee earns \$0.70 for every packet of sweets she sells. For every 30 packets of sweets sold, Mrs Lee earns an extra \$8. What is the total amount earned by Mrs Lee if she manages to sell 130 packets of sweets?

Ans: _____[3]

42. A fish tank A is 12 cm by 8 cm by 5 cm. It is $\frac{2}{3}$ filled with water. All the water in fish tank A is then poured into an empty fish tank B which has a square base of 5 cm. Find the height of the water level in fish tank B.

Ans: _____[4]

43. The figure below shows a rectangle and a right-angled triangle. The ratio of the area of the rectangle to that of the triangle is 7 : 3. If the height of the triangle is 12 cm and its base is 15 cm, find the breadth of the rectangle.



Ans: _____[4]

44. If Freddy were to buy 8 robots, he would need \$26 more.
However, if he were to buy 5 robots, he would have \$4 left over.

- (a) Find the cost of one robot.
- (b) How much money did Freddy have at first?

Ans: _____[2]

Ans: _____[2]

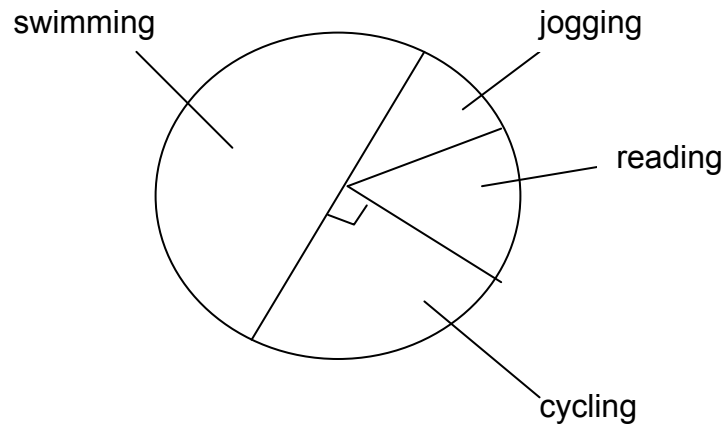
45. Isaac received \$480 during Chinese New Year. He received 35% from his relatives and \$120 from his parents' friends. The remaining amount was from his parents. What percentage of Isaac's money was from his parents?

Ans: _____[4]

46. The ratio of the number of books Fiona has to the number of books Lionel has is 9 :7. The ratio of the number of books Fiona has to the number of books Elizabeth has is 3 : 4. Elizabeth has 15 more books than Lionel. How many books do the three of them have altogether?

Ans: _____[4]

47. The total number of children surveyed is 520.
The pie chart below shows the different activities the children like to do during their past time. Half of the children like swimming and a quarter of them like cycling.



- (a) If 52 children like reading, how many children like jogging?
(b) Find the percentage of children who like jogging.

Ans: _____[2]

Ans: _____[3]

48. In May, Mr Hong's salary was \$2100. He spent $\frac{4}{7}$ of it and saved the rest. The following month, his salary was increased by 10% and his expenditure was also increased by 20%. How much did he save in June?

Ans: _____ [5]

49. There are 108 trees in Forest A and Forest B. Forest B and Forest C have a total of 134 trees. The number of trees in Forest A is $\frac{3}{5}$ the number of trees in Forest C. How many trees are there in the three forests altogether?

Ans: _____[5]

50. The Desert House sells only special chendol and tasty red bean soup. Tasty red bean soup is sold at \$1.50 each bowl. A bowl of special chendol costs twice as much. On a particular day, the Desert House sold \$270 worth of special chendol and tasty red bean soup. 40% of the money earned was made from selling tasty red bean soup. How many bowls of special chendol were sold that day?

Ans: _____ [5]
