

**Primary Six
Mathematics
Continual Assessment One**

Section A

Questions 1 to 5 carry 1 mark each. Questions 6 to 15 carry 2 marks each.
For each question, four options are given. One of them is the correct answer. Write your answer on the boxes provided.

1. What is the answer for $9 + 9 \div 9 - 1 \times 2$?

(1) 18

(2) 8

(3) 7

(4) 0

2. Which one of these fractions has the largest value?

(1) $\frac{1}{3}$

(2) $\frac{7}{20}$

(3) $\frac{3}{10}$

(4) $\frac{333}{1000}$

3. What is the value of the digit '9' in 17.298

(1) 0.9

(2) 9

(3) 0.009

(4) 0.09

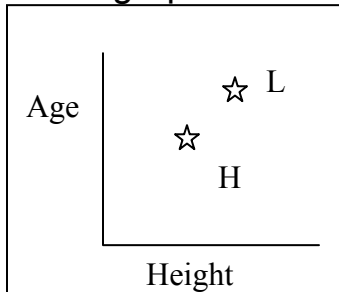
4. 2 tins of cookies and 5 bottles of salted vegetables cost \$21.50. If a tin of cookies costs \$2.80, what is the cost of a bottle of salted vegetables?

- (1) \$3.18 (2) \$3.75
 (3) \$7.50 (4) \$9.35

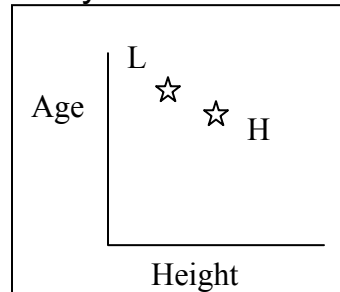
5. The average cost of 3 bags is \$7x. One bag costs \$2x and another costs \$1. Express the cost of the third bag in terms of x.

- (1) \$ (9x - 1) (2) \$ (5x - 1)
 (3) \$ (14x + 1) (4) \$ (19x - 1)

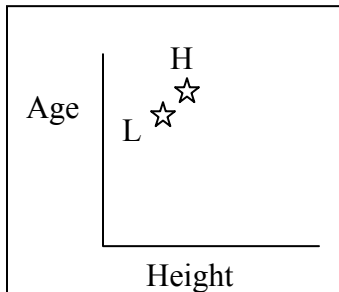
6. Lily and Huiling are cousins. Huiling is taller but younger than Lily. If the letter H and L represent Huiling and Lily respectively, which graph below represent Lily?



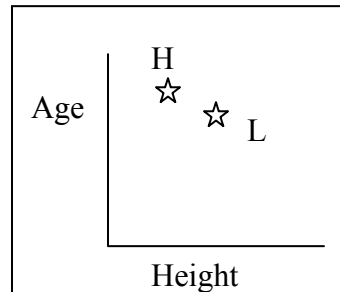
(1)



(2)



(3)



(4)

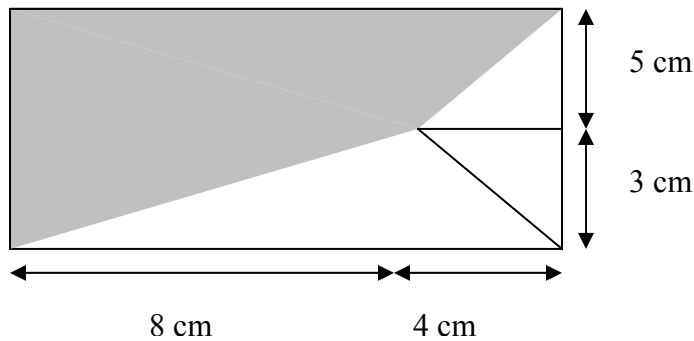
7. A container holds 4 kg of sugar. My uncle uses 0.2 kg of it. What fraction of the sugar is left?

- (1) $3\frac{4}{5}$ (2) $3\frac{1}{5}$
(3) $\frac{4}{5}$ (4) $\frac{19}{20}$

8. A lasso measures 104 cm. A fishing line is $2\frac{1}{4}$ times as long. Find the length of the fishing line.

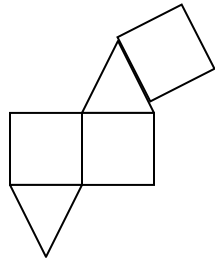
- (1) 209 cm (2) 338 cm
(3) 468 cm (4) 234 cm

9. Find the area of the shaded part of the rectangle.

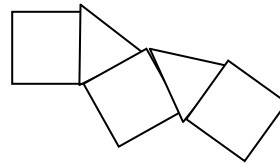


- (1) 62 cm^2 (2) 34 cm^2
(3) 28 cm^2 (4) 48 cm^2

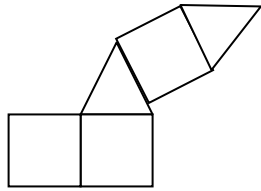
10. Which one of the following is **not** the net of a triangle prism?



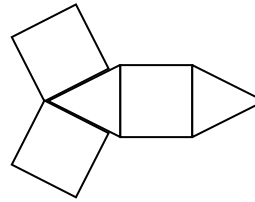
(1)



(2)



(3)



(4)

11. The length and breadth of a rectangle are in the ratio 7 : 3.
What fraction of the perimeter is one length of the rectangle?

(2) $\frac{7}{20}$

(2) $\frac{10}{7}$

(3) $\frac{3}{10}$

(4) $\frac{20}{7}$

12. Twice Benjamin's age is $\frac{1}{5}$ of Andrew's age. Express the ratio of Benjamin's age to Andrew's age

(3) 2 : 5

(2) 4 : 5

(3) 1 : 5

(4) 1 : 10

13. This year, the number of people joining Country Club membership dropped by 20 percent as compared to last year. There are 420 people joining membership this year. How many people were there joining membership in last year?

(4) 440

(2) 336

(3) 525

(4) 504

14. 210 hot dogs were sold on Monday and thrice the number were sold on Tuesday. 171 more hot dogs were sold on Wednesday than on Tuesday. What was the average number of hot dogs sold on the 3 days?

(5) 127

(2) 547

(3) 407

(4) 337

15. A tank can hold 24 litres of water. Water flows from 2 pipes A and B into the tank. Pipe A takes 8 minutes to fill the tank. Pipe B takes 4 minutes to fill the tank. How long would they take to fill the tank?

(6) 12 min

(2) 6 min

(3) 4 min

(4) 2 min

Section B

Each question from 16 – 35 carries 1 mark. Write your answers in the boxes provided. Give your answers in the units stated.

16. Round off 333 499 to the nearest thousand.

17. Simplify $\frac{4}{5} \times 10 =$

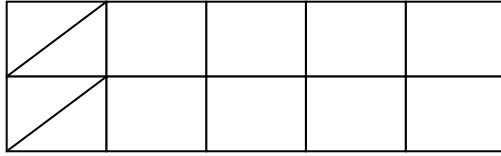
18. Express 22 l 2ml in litres.

19. If $a = 5$, find the value of $a^3 + 6a - 2$.

20. $650 \div 5 = 50 \div 5 +$ $\div 5$

21. My watch shows 8.30 am. It is 8 minutes fast. What is the actual time $1\frac{1}{2}$ hours later?

22. Shade 0.65 of the figure below.



23. On Mother's day, David gave away $\frac{1}{4}$ of his curry puffs and sold $\frac{3}{4}$ of the remainder. If he sold 4 500 curry puffs, how many curry puffs did he make that day?

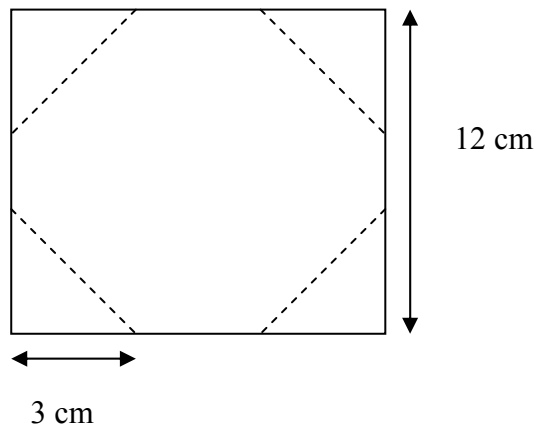
24. $5.59 = 5 + 0.09 + 10 \times$

Find the missing decimal in the box.

25. May is 7y cm tall. June is 6 cm shorter. Find their total height.

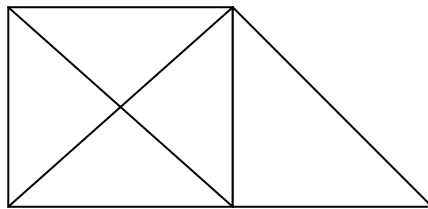
26. A tank measures 1.8 m by 1 m by 75 cm, is filled with 15 percent of water. Find the volume of water in the tank.

27. 4 isosceles triangles were cut from a square piece of paper as shown in the diagram. (The diagram is not drawn to scale.)



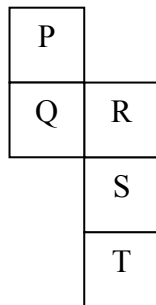
What was the area of the remaining paper?

28. How many triangles (of all shapes and sizes) can be found in the diagram?



29. Diana is $\frac{3}{9}$ as tall as Eric. Eric is $\frac{5}{7}$ as tall as Felicia. Find the ratio of Felicia's height to Diana's height.

30. The diagram shows the net of an open box.



If the box is placed on the table so that the top of the box is open, the letter on the bottom of the box is _____.

31. Kat has an equal number of 10-cents coins and 5-cents coins in her purse. The coins add up to \$2.40. How many coins does she have?

32. Express the ratio of 3.8 kg to 300 g in the simplest form.

33. What is the sum of 0.2 and 20. Leave your answer as a decimal.

34. The average age of Mrs. Chia and Madam Loo is 38 years. The average age of Mr. Chia and Mr. Quak is 4 years more. Find the average age of these 4 persons.

35. A cake-mixer can beat 10 eggs at any one time. It takes the cake-mixer 10 minutes to beat each batch of 10 eggs. How long will it take to beat 132 eggs?

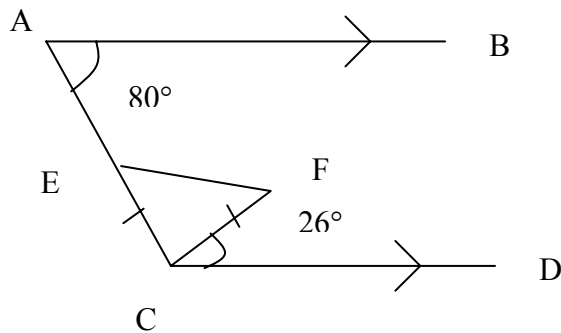
Section C

Write your answers to questions 36 to 50 in the spaces provided. For each question, show your working clearly in the space below. The number of marks for each question is shown in the brackets () at the end of each question or part question.

36. Sweets are sold in packs of 30. Mrs. Mosis wants to give sweets her pupils at a party. There are 35 pupils. If each pupil is to be given 12 sweets, how many packets of sweets must she buy?

(2)

37. In the figure not drawn to scale, AB is parallel to CD and CEF is an isosceles triangle where $EC = CF$. Find $\angle CFE$.

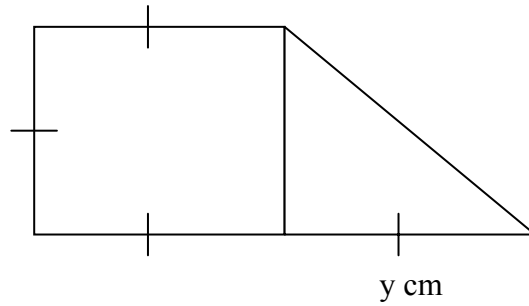


(2)

-
19. Paul and Peter had \$451 altogether. When Paul gave $\frac{1}{4}$ of his money to Peter, Peter had \$43 more than him. How much money do Peter have at first?

(2)

39.



- (a) Express the area of the figure in terms of y .
(b) What is the area of the figure? Given that $y = 2$.

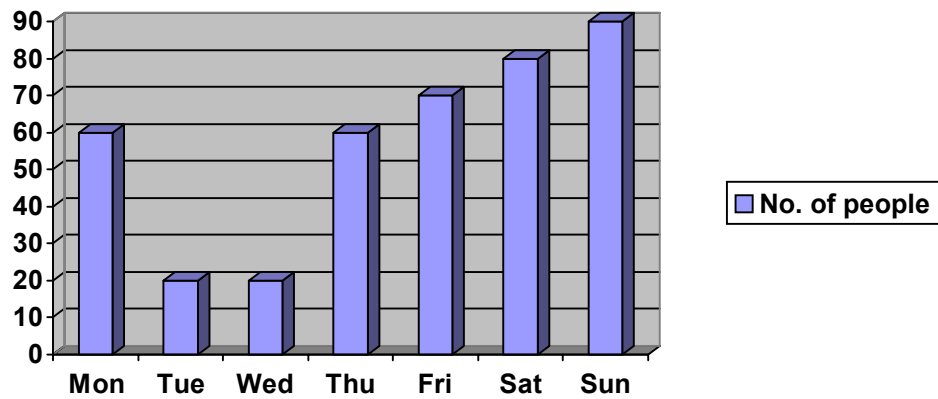
(2)

(1)

-
40. The average yearly rental paid by a company for 4 offices was \$19 200. The monthly rental paid for one of the office was \$1 280. What was the monthly rental paid for the other 3 offices?

(3)

41. The graph shows the number of people who patronize a cake shop during a certain week.



- (a) On which day was there an increase of 40 customers as compared to the previous day?
- (b) How many people patronize the cake shop during weekends?
- (c) The ratio of men to women who visited the shop was 4 : 1. How many more men than women were there during the week?

(1)

(1)

(2)

42. Each pair of track shoes are sold at \$125. At the Great Singapore Sale, for every purchase of a pair of track shoe, a 2nd pair of track shoe can be brought at a 60% discount.

(a) Find the amount Charlie paid for 7 pairs of track shoes.

(b) Find the maximum pair of track shoes Charlie can buy with \$ 438.

(2)

(2)

43. The rate for hiring a London cab is shown in the table below.

First 600 m	\$9.00
After the first 600 m	20 cents per 200 m

- (a) What is the cab fare paid for a distance of 7.6 km?
- (b) What is the difference in cab fare if the distance traveled is 850 m?

(2)

(2)

44. Anderson and Madric went to a computer store. Anderson spent $\frac{5}{9}$ of his money and had \$340 left. Madric had $\frac{1}{3}$ of his money left. If Madric spent twice as much as Anderson, find the total amount they had at first.

(4)

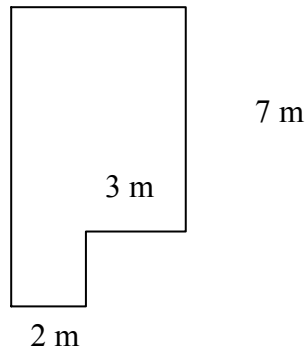
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45. A train started off from the station with passengers on board. At the first stop, $\frac{1}{3}$ of the passengers alighted and 8 people boarded. At the next stop, $\frac{1}{2}$ of those on the train alighted and 6 people boarded. There are now 102 passengers on the train.
- How many passengers were there at the beginning of the trip?

(4)

46. There are 320 seats in an air plane. 25% of them are the first-class seats. How many first-class seats must be added so that the number of first-class seats will be increased to 40%?

(4)

47. The diagram shows the floor plan of an office.



The perimeter of the floor is 36 m. If the cost of carpeting the floor is \$20 per m^2 , find how much Mr. Lee has to pay to carpet the whole office.

(4)

48. A tank measures 40 cm by 20 cm by 12 cm. It is filled with water to the depth of 2 cm.
- (a) If $\frac{3}{4}$ of the tank is to be filled with water, how much more water is needed?
- (b) What will be the new water level if a stone of volume 240 cm³ is placed in the tank?

(2)

(2)

49. A fruit-seller found that some of his jackfruits were overripe. He sold the overripe jackfruit at \$2 each and the good ones at \$2 more each. The ratio of the number of good jackfruits sold to the number of overripe jackfruits sold was 11 : 4. He received \$ 1 040 from the sale of jackfruit.

- (a) How many good jackfruits were sold?
- (b) What was the ratio of the amount received for the overripe jackfruits to the total amount received from the sale of jackfruits?

(3)

(2)

50. For every 1 000 chocolate bars Mr. Toh orders, he gets a 5% discount. The discount is increased by 3% when he orders any additional chocolate bar. If each chocolate bar costs \$4.50 and Mr. Toh receives a total discount of \$675, how many chocolate bars has he bought?

(5)