

**Test:** Primary 6 Maths (Term 1) - Nanyang

**Points:** 88 points

**Name:** \_\_\_\_\_

**Score:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Signature:** \_\_\_\_\_

Select multiple choice answers with a cross or tick:

- Only select one answer
- Can select multiple answers

**Question 1 of 54**

Primary 6 Math (Term 1) 1 pt

Find the value of  $140 \times 4000$

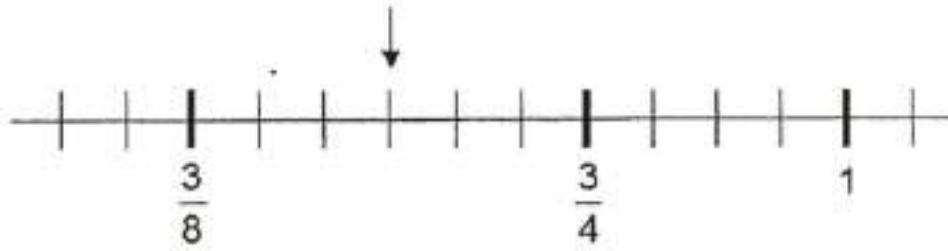
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- A) 5600
- B) 56 000
- C) 560 000
- D) 5 600 000

## Question 2 of 54

Primary 6 Math (Term 1) 1 pt

In the number line below, what is the value indicated by the arrow?

 A)

$$\frac{3}{6}$$

 B)

$$\frac{6}{8}$$

 C)

$$\frac{6}{16}$$

 D)

$$\frac{9}{16}$$

**Question 3 of 54**

Primary 6 Math (Term 1) 1 pt

$\frac{7}{8}$  of a cake was shared equally among 6 people. What fraction of the cake did each person receive?

A)  $\frac{4}{21}$

B)  $\frac{7}{48}$

C)  $\frac{21}{4}$

D)  $\frac{48}{7}$

**Question 4 of 54**

Primary 6 Math (Term 1) 1 pt

Express 2045cm in m

A) 2.45m

B) 2.045m

C) 20.45m

D) 20.045m

**Question 5 of 54**

Primary 6 Math (Term 1) 1 pt

Find the value of  $0.1 \div 100$

A) 10

B) 100

C) 0.001

D) 0.01

## Question 6 of 54

Primary 6 Math (Term 1) 1 pt

Find the value of  $\frac{7}{10} - \frac{1}{4} + \frac{1}{10}$ .

- 
- A)  $\frac{7}{20}$
- B)  $\frac{11}{20}$
- C)  $\frac{17}{20}$
- D)  $\frac{21}{20}$

**Question 7 of 54**

Primary 6 Math (Term 1) 1 pt

Mr Suresh had  $\frac{7}{9}$  kg of sugar. He used  $\frac{1}{3}$  of it to bake some cookies.

How much sugar did he use?

A)

$$\frac{7}{27} \text{ kg}$$

B)

$$\frac{12}{27} \text{ kg}$$

C)

$$\frac{14}{27} \text{ kg}$$

D)

$$\frac{28}{27} \text{ kg}$$

**Question 8 of 54**

Primary 6 Math (Term 1) 1 pt

Simplify  $24q-8q+3q$

A)  $19q$

B)  $19$

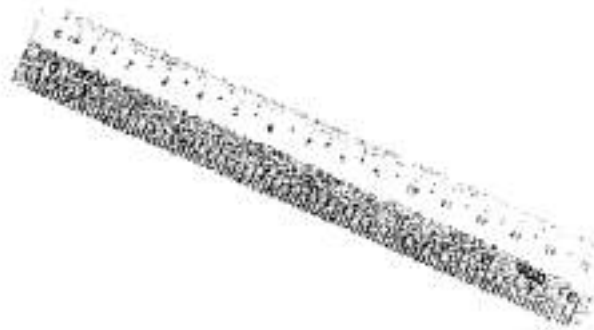
C)  $13q$

D)  $13$

**Question 9 of 54**

Primary 6 Math (Term 1) 1 pt

Which of the following is likely to be the mass of a 15-cm plastic ruler?



- A) 500g
- B) 50 kg
- C) 5kg
- D) 5g

**Question 10 of 54**

Primary 6 Math (Term 1) 1 pt

Look at the pattern below.

3	9
12	6

4	?
16	8

5	15
?	10

6	18
24	12

7	21
28	14

Find the sum of the two missing numbers.

- A) 8
- B) 12
- C) 20
- D) 32

**Question 11 of 54**

Primary 6 Math (Term 1) 1 pt

Sam was given some ribbon to tie 2 parcels. He used  $\frac{7}{8}$  m of ribbon to tie the first parcel. The length of ribbon used for the second parcel was twice the length of ribbon used for the first parcel. How many metres of ribbon did he use in all?

- A)  $\frac{7}{16}$  m
- B)  $\frac{21}{16}$  m
- C)  $\frac{14}{8}$  m
- D)  $\frac{21}{8}$  m

**Question 12 of 54**

Primary 6 Math (Term 1) 1 pt

In a music store, 250 CDs were sold in January. In February, 150 CDs were sold. What was the percentage decrease in the sale of the CDs?

- A) 25%
- B) 37.50%
- C) 40%
- D) 60%

## Question 13 of 54

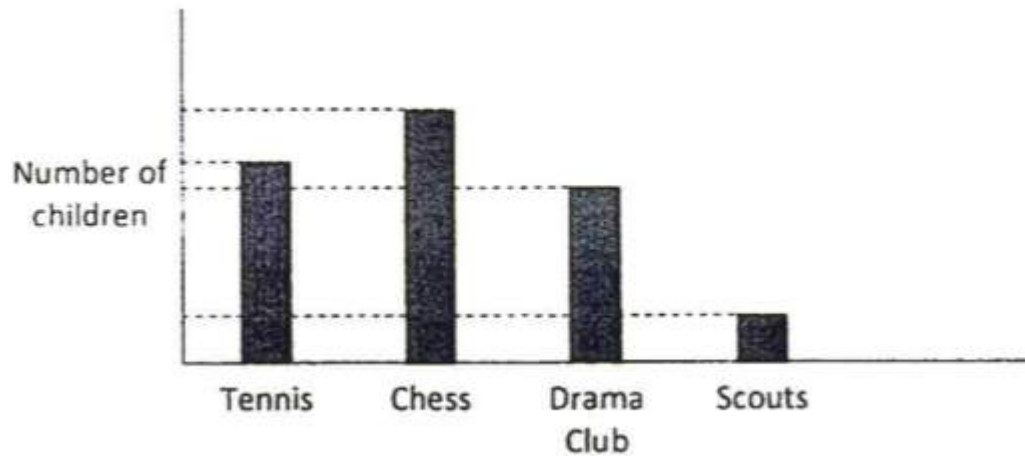
Primary 6 Math (Term 1) 1 pt

The total number of children in Tennis, Chess, Drama Club and Scouts was 200. The table below shows the number of children in Tennis, Chess and Drama Club.

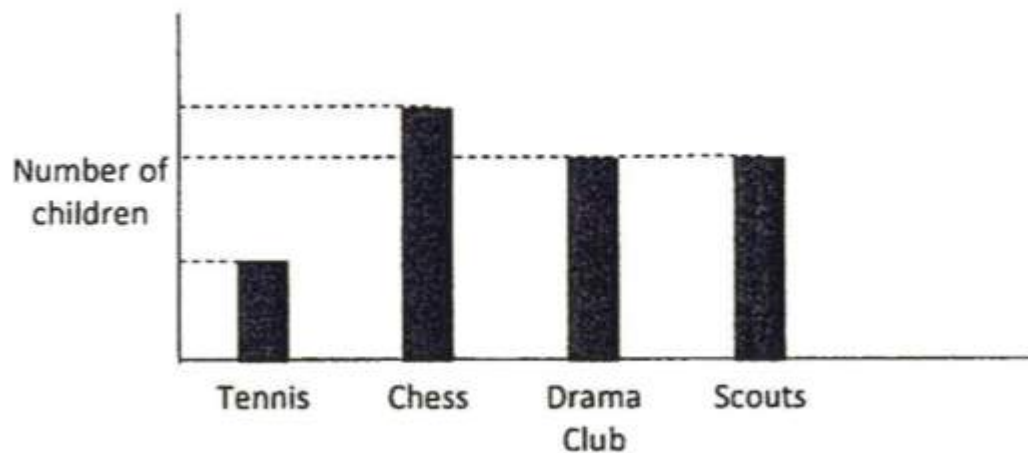
CCA	Tennis	Chess	Drama Club	Scouts
Number of children	45	60	50	?

Which bar graph best represents the information in the table?

A)

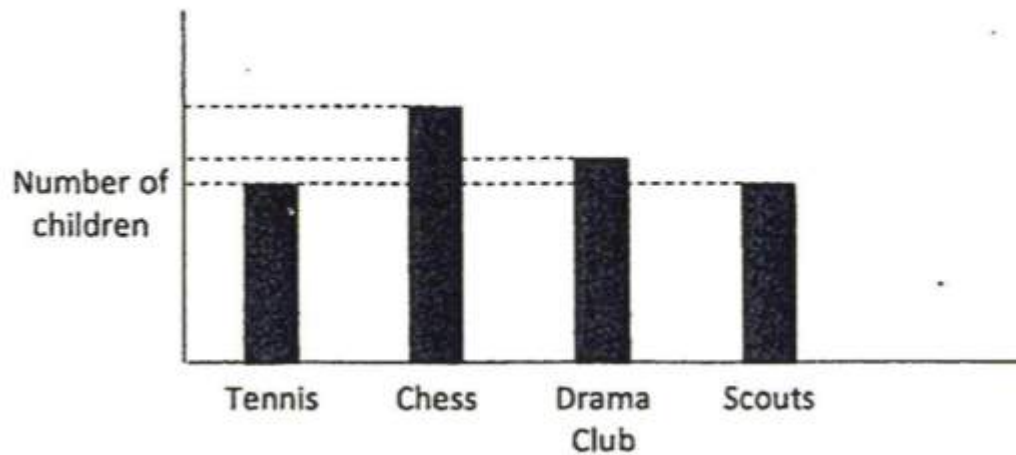
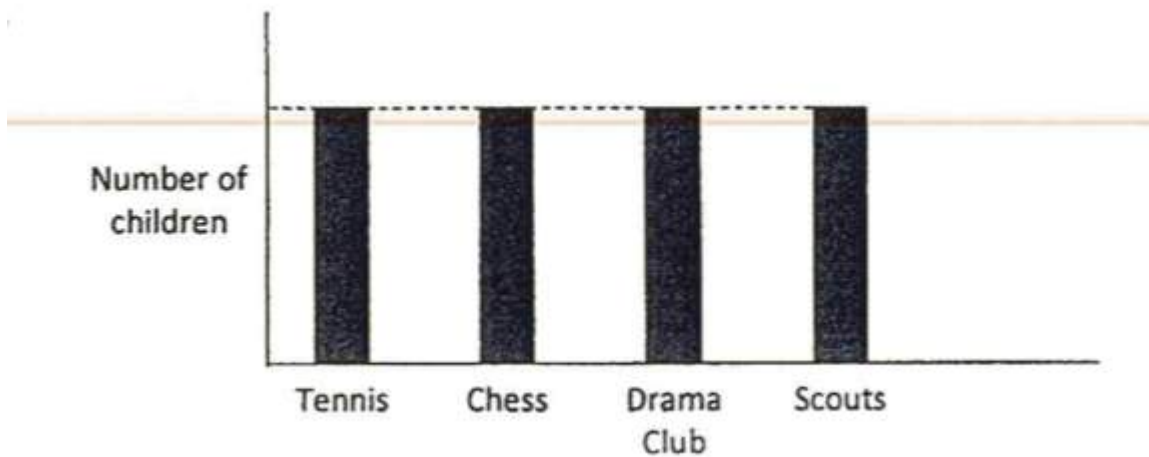


B)



C)




 D)

**Question 14 of 54**

Primary 6 Math (Term 1) 1 pt

 Find the value of  $70 \div (6 + 8 \div 2) + 5$ 


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**Question 15 of 54**

Primary 6 Math (Term 1) 1 pt

A shopkeeper filled some empty bottles with 24 ℓ of barley drink. He filled each bottle with  $\frac{2}{3}$  ℓ of barley drink. How many bottles did he fill?

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**Question 16 of 54**

Primary 6 Math (Term 1) 1 pt

Find the missing value.

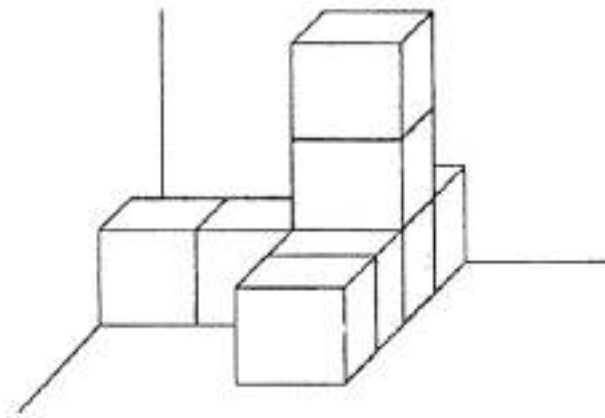
$$42 \div \underline{\quad} = 6$$

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**Question 17 of 54**

Primary 6 Math (Term 1) 1 pt

The solid below is built with 2-cm cubes. How many more such cubes must be added to form a bigger solid measuring 8 cm by 8 cm by 8 cm?



- 
- A) 56  
 B) 64  
 C) 216  
 D) 504

**Question 18 of 54**

Primary 6 Math (Term 1) 1 pt

Find the value of  $\frac{12+3n}{2}$  when  $n = 6$ .

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**Question 19 of 54**

Primary 6 Math (Term 1) 1 pt

Andrew had \$280. He spent 40% of it on a watch. How much did he spend on the watch?

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**Question 20 of 54**

Primary 6 Math (Term 1) 2 pts

The table below shows the ages of 4 children. Whose age is the closest to the average age of the 4 children?

Name	Age in years
Alicia	7
Bernice	9
Chris	13
Danny	10

- 
- A) Alicia
- B) Bernice
- C) Chris
- D) Danny

**Question 21 of 54**

Primary 6 Math (Term 1) 2 pts

Jane bought 40 chocolate tarts, some cheese tarts and some blueberry tarts for her party. Each tart cost \$2 and she paid \$200 for all the tarts. Everyone in the party took 2 tarts each and there was no tarts left.

Statement: There were 50 people at the party

- 
- A) TRUE
- B) False
- C) Not possible to tell

**Question 22 of 54**

Primary 6 Math (Term 1) 2 pts

Statement: Joanne bought 6 times as many cheese tarts as blueberry tarts.

- 
- A) TRUE
- B) FALSE
- C) Not possible to tell

**Question 23 of 54**

Primary 6 Math (Term 1) 1 pt

There are 50 pupils in a class. 32 of them are boys. What percentage of the pupils are boys?

- 
- A) 18%
- B) 32%
- C) 36%
- D) 64%

**Question 24 of 54**

Primary 6 Math (Term 1) 2 pts

The usual price of a pair of shoes was \$180. Sally bought it at a 25% discount during a sale. How much did she pay for the pair of shoes after discount?

**Question 25 of 54**

Primary 6 Math (Term 1) 2 pts

The thickness of a dictionary was  $\frac{1}{8}$  of the height of a table. The

height of 3 such tables when stacked on top of one another was  $\frac{21}{8}$  m.

What is the total thickness of 2 such dictionaries?

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**Question 26 of 54**

Primary 6 Math (Term 1) 2 pts

At a pet shop,  $\frac{1}{4}$  of the animals were cats, 45% of the animals were dogs, 18% of the animals were rabbits and the rest were hamsters. There were 24 hamsters. How many animals were there at the pet shop?

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**Question 27 of 54**

Primary 6 Math (Term 1) 2 pts

Amy had \$10y. She had \$24 less than Cindy. Linda had half as much as Amy. They bought a present which cost  $\$(4y + 5)$  for their friend.

- (a) How much did they have altogether at first? Give your answer in terms of y in the simplest form.
-

**Question 28 of 54**

Primary 6 Math (Term 1) 2 pts

b) If  $y=7$ , how much did they have left in total after buying the present?

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**Question 29 of 54**

Primary 6 Math (Term 1) 2 pts

A machine could produce 120 000 boxes of chocolates in 6 hours. After the machine was improved and upgraded, the machine can now produce 9000 more boxes of chocolates in every 2 hours. At this new rate, how many boxes of chocolates does the machine produce in one hour?

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**Question 30 of 54**

Primary 6 Math (Term 1) 2 pts

A tank measuring 35 cm long and 25 cm wide was filled with water to a height of 0.18 m. When 2.6 l of water was added into the tank, 850 ml of water overflowed from the tank. What was the capacity of the tank?

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**Question 31 of 54**

Primary 6 Math (Term 1) 2 pts

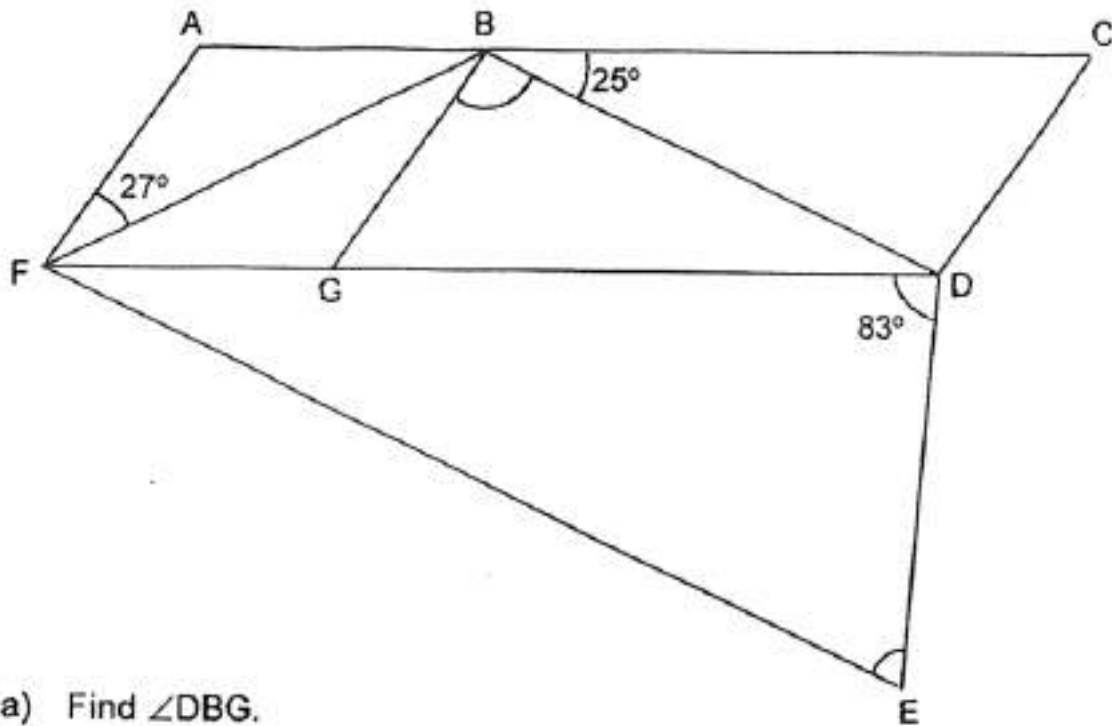
At first, Josh and May had some marbles each. After Josh gave  $\frac{1}{4}$  of his marbles to May, May had 3 times as many marbles as him. May then gave Josh 12 marbles. In the end, each of them had an equal number of marbles. How many marbles did May have at first?

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## Question 32 of 54

Primary 6 Math (Term 1) 2 pts

In the figure,  $ABGF$  is a rhombus,  $BCDG$  is a parallelogram and  $BDEF$  is a trapezium.  $ABC$  and  $FGD$  are straight lines and  $BD$  is parallel to  $FE$ .  $\angle AFB = 27^\circ$ ,  $\angle CBD = 25^\circ$  and  $\angle GDE = 83^\circ$ .



(a) Find  $\angle DBG$ .

## Question 33 of 54

Primary 6 Math (Term 1) 2 pts

b) Find angle DEF

## Question 34 of 54

Primary 6 Math (Term 1) 2 pts

How many ways can the digits 2, 3, 5 and 0 be arranged into 4-digit numbers that are multiples of 5? For each number, each digit can only be used once.

**Question 35 of 54**

Primary 6 Math (Term 1) 2 pts

Mrs Cheng wants to pack  $\frac{3}{4}$  kg of flour into small packets. Each small packet contains  $\frac{1}{5}$  kg of flour. At most, how many of such small packets of flour can she pack?

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**Question 36 of 54**

Primary 6 Math (Term 1) 2 pts

The table below shows the number of pupils who are left-handed in a school. The number of pupils who are right-handed is not shown in the table. The ratio of the number of boys who are left-handed to the number of boys who are right-handed is 2 : 33.

	<b>Left-handed</b>	<b>Right-handed</b>
Boys	48	
Girls	42	

(a) How many boys are right-handed?

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**Question 37 of 54**

Primary 6 Math (Term 1) 2 pts

(b) 95% of the pupils are right-handed. What is the ratio of the number of girls to the number of boys to the total number of pupils? Give your answer in the simplest form.

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**Question 38 of 54**

Primary 6 Math (Term 1) 2 pts

c) Some girls are then transferred into the school from another school. Did the percentage of boys who are right-handed increase, decrease or remain the same compared to the total number of pupils?

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- A) increase
- B) decrease
- C) remain the same

**Question 39 of 54**

Primary 6 Math (Term 1) 2 pts

A file cost \$1.20 more than a notebook. A pen cost twice as much as the file. The total cost of the three times was \$11.60. What was the cost of the file?

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**Question 40 of 54**

Primary 6 Math (Term 1) 2 pts

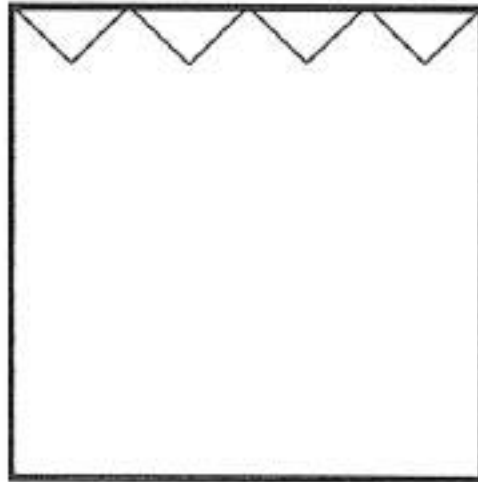
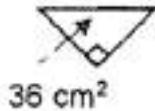
Thana had some hair clips. 25% of Thana's hair clips were blue. She had 10 blue hair clips. How many hair clips did she have altogether?

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## Question 41 of 54

Primary 6 Math (Term 1) 2 pts

Mrs Lau had some cloth which she had cut into identical right-angled isosceles triangles. Each triangular piece of cloth had an area of  $36 \text{ cm}^2$ . She then sewed these triangles onto the square piece of cloth as shown below.



She continued to sew these triangular pieces of cloth onto the square piece of cloth without any overlaps. No part of any of the triangular piece of cloth was outside of the square piece of cloth.

- (a) How many of such triangular pieces of cloth did she sew to cover **1 face** of the square piece of cloth **completely**?

## Question 42 of 54

Primary 6 Math (Term 1) 2 pts

- b) What is the perimeter of the square piece of cloth?

**Question 43 of 54**

Primary 6 Math (Term 1) 2 pts

The monthly salary of Mr Gill is the same each month. In November, Mr Gill spent \$1600 of his monthly salary and saved the rest. In December, he increased his spending by 30% and his savings decreased by 50%. How much did he save in November?

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**Question 44 of 54**

Primary 6 Math (Term 1) 2 pts

Mr Chua bought 3 identical pairs of socks and less than 5 identical pairs of shoes. The total cost of the socks was \$75 and the average price of all the items that he had bought was \$78.60. The total amount that he had spent on the shoes was a whole number in dollars.

(a) How many pairs of shoes did he buy?

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**Question 45 of 54**

Primary 6 Math (Term 1) 2 pts

b) What was the average price of the shoes?

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**Question 46 of 54**

Primary 6 Math (Term 1) 2 pts

The cost of 3 identical watches and 4 identical belts is \$371. The cost of 3 such watches and 2 such belts is \$298. What is the cost of 1 such belt?

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**Question 47 of 54**

Primary 6 Math (Term 1) 2 pts

Wei Yan had some marbles at first. He gave  $\frac{3}{8}$  of them to his friends and  $\frac{5}{7}$  of the remaining marbles to his brother. His cousin then gave him 408 marbles. In the end, he had twice as many marbles as he had at first. How many marbles did Wei Yan have at first?

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**Question 48 of 54**

Primary 6 Math (Term 1) 2 pts

At a concert, 45% of the people were adults and  $\frac{1}{5}$  of the remaining people were girls. There were 660 more boys than girls. How many people were at the concert?

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**Question 49 of 54**

Primary 6 Math (Term 1) 2 pts

A baker baked 300 cookies. 60% of the cookies baked were chocolate chip cookies and the rest were lychee cookies. Some of the chocolate chip cookies were sold and now the percentage of the chocolate chip cookies decreased to 40% of the remaining cookies. How many chocolate chip cookies were sold?

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**Question 50 of 54**

Primary 6 Math (Term 1) 2 pts

The mass of a pineapple is  $f$  kg. The mass of a durian is twice as heavy as the pineapple. The mass of a watermelon is 3kg more than the mass of the durian. What is the mass of the watermelon? Give your answer in terms of  $f$  in the simplest form.

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**Question 51 of 54**

Primary 6 Math (Term 1) 2 pts

Mrs Lim had  $d$  m of cloth. She used 2m to sew a blouse. She used the remaining cloth to sew 4 identical dresses. If Mrs Lim had 22m of cloth, find the length of cloth she used to make 1 dress.

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**Question 52 of 54**

Primary 6 Math (Term 1) 2 pts

Suhailah and Ramy went jogging at a park. Suhailah jogged  $1\frac{1}{5}$  km and another  $2\frac{1}{3}$  km after resting for some time. Ramy jogged  $1\frac{1}{4}$  km less than the total distance that Suhailah jogged. How far did Ramy jog? Give your answer as a mixed number in the simplest form.

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**Question 53 of 54**

Primary 6 Math (Term 1) 2 pts

Susan had 3 ℓ of water. She drank  $\frac{3}{7}$  of it. How many litres of water did she drink?

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**Question 54 of 54**

Primary 6 Math (Term 1) 2 pts

Six children took turns to sit on 2 swings from 2 p.m. to 2.45 p.m. At any time, 2 children sat on the swings while the other 4 children watched. Each of them spent the same amount of time sitting on the swing. How many minutes did each child sit on the swing?

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