Test: Primary 6 Math (Term 4) - ACS (Y0)

Points: 49 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 52

Primary 6 Math (Prelim) 1 pt

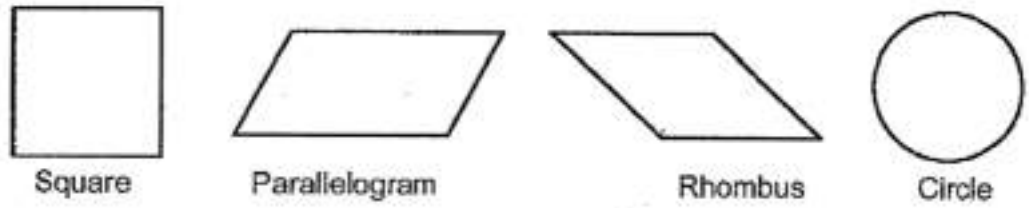
How many ten thousands are there in 4 710 000?

- ○ **A)** 47
- ○ **B)** 471
- ○ **C)** 4710
- ○ **D)** 47100

Question 2 of 52

Primary 6 Math (Prelim) 1 pt

How many of the following figures have at least one line of symmetry?



- ○ **A)** 1
- ○ **B)** 2
- ○ **C)** 3
- ○ **D)** 4

Question 3 of 52 Primary 6 Math (Prelim) 1 pt

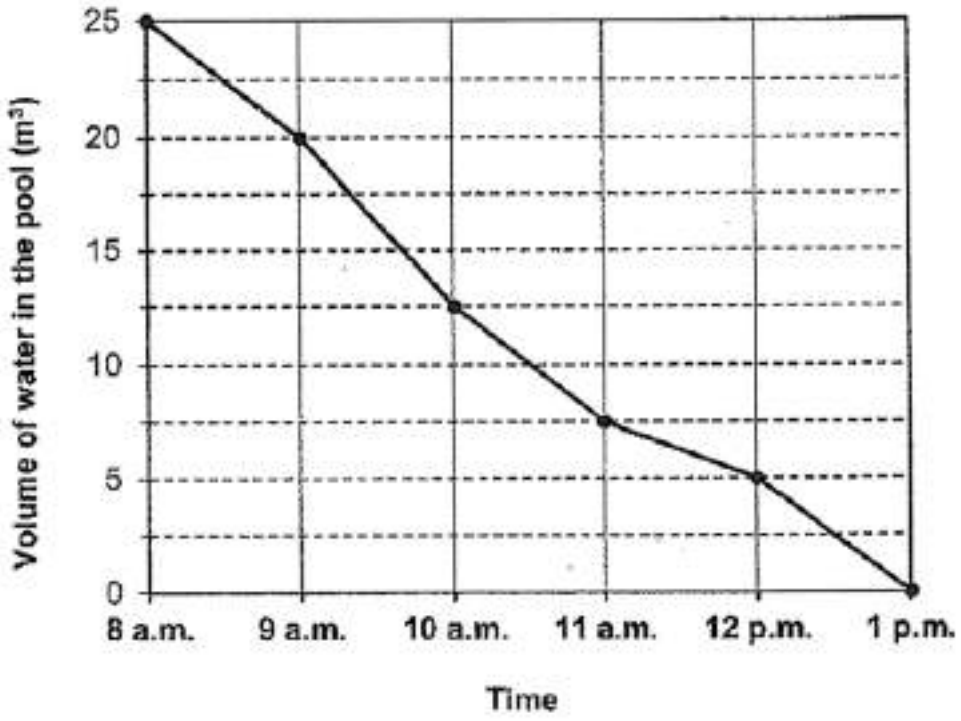
Express $6\frac{2}{500}$ as a decimal.

- **A)** 6.2
- **B)** 6.4
- **C)** 6.04
- **D)** 6.004

Question 4 of 52

Primary 6 Math (Prelim) 1 pt

At 8 a.m., a swimming pool was completely filled with water. From 8 a.m. to 1 p.m., water was drained from the swimming pool. The line graph below shows the volume of water in the swimming pool from 8 a.m. to 1 p.m.



During which one-hour period was the decrease in the volume of water the greatest?

- **A)** Between 8am and 9am
- **B)** Between 9am and 10am
- **C)** Between 10am and 11am
- **D)** Between 11am and 12am

Question 5 of 52

Primary 6 Math (Prelim) 1 pt

The table below shows the number of 'Arts Fiesta' tickets sold over a period of five days. The total number of tickets sold was 1380. What is the average number of tickets sold on Wednesday, Thursday and Friday?

Days	Tickets sold
Monday	325
Tuesday	380
Wednesday	?
Thursday	?
Friday	?

- **A)** 205
- **B)** 225
- **C)** 675
- **D)** 705

Question 6 of 52

Primary 6 Math (Prelim) 1 pt

Isaac ran round a circular track 3 times for his training. The radius of the track was 56 m. How far did he run? (Take $\pi = \frac{22}{7}$)

- **A)** 168m
- **B)** 352m
- **C)** 528m
- **D)** 1056m

Question 7 of 52

Primary 6 Math (Prelim) 1 pt

A tank measured 40 cm by 15 cm by 30 cm is half filled with water. Find the volume of water in the tank.

- **A)** 9L
- **B)** 18L
- **C)** 9000L
- **D)** 18000L

Question 8 of 52

Primary 6 Math (Prelim) 1 pt

Arrange the following fractions from the smallest to the largest:

$1\frac{1}{6}$, $\frac{5}{4}$, $\frac{10}{9}$

- **A)** $1\frac{1}{6}, \frac{10}{9}, \frac{5}{4}$
- **B)** $\frac{5}{4}, \frac{10}{9}, 1\frac{1}{6}$
- **C)** $\frac{5}{4}, 1\frac{1}{6}, \frac{10}{9}$
- **D)** $\frac{10}{9}, 1\frac{1}{6}, \frac{5}{4}$

Question 9 of 52

Primary 6 Math (Prelim) 1 pt

One of the angles of a trapezium is 55. Which of the following are possible values of the remaining angles?

- **A)** 115, 55 and 125
- **B)** 115, 55 and 65
- **C)** 115, 55 and 115
- **D)** 115, 65 and 125

Question 10 of 52

Primary 6 Math (Prelim) 1 pt

In the number line shown below, which value is closest to the reading at **X**?

- **A)** 5.190
- **B)** 5.495
- **C)** 5.590
- **D)** 5.725

Question 11 of 52 Primary 6 Math (Prelim) 1 pt

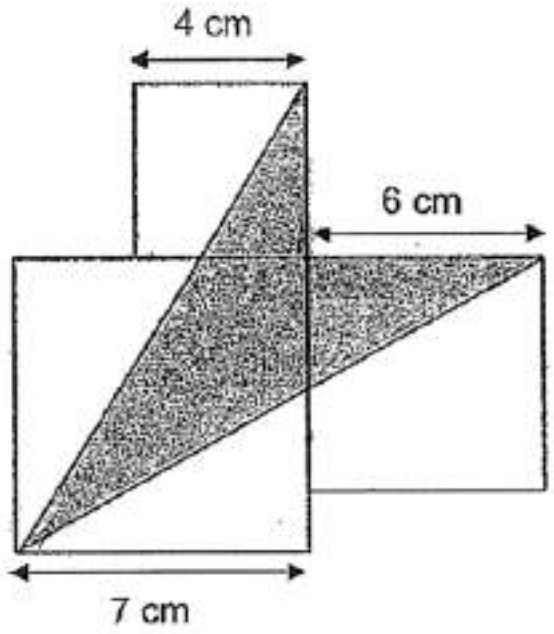
Mr Lee had some magazines. He sold 315 magazines from Monday to Friday. He sold $\frac{2}{5}$ of the remaining magazines on Saturday and Sunday. The number of magazines left was $\frac{1}{4}$ of what he had at first. How many magazines did he have at first?

- **A)** 540
- **B)** 405
- **C)** 90
- **D)** 45

Question 12 of 52

Primary 6 Math (Prelim) 1 pt

The figure below is made up of 3 squares. Find the shaded area.



- **A)** 31 cm2
- **B)** 35 cm2
- **C)** 36 cm2
- **D)** 48 cm2

Question 13 of 52

Primary 6 Math (Prelim) 1 pt

Machine A prints 16 pages more than Machine B in every minute. Machine A and Machine B print a total of 608 pages in 4 minutes. At this rate, how many pages does Machine A print in 1 minute?

- **A)** 68
- **B)** 74
- **C)** 94
- **D)** 90

Question 14 of 52

Primary 6 Math (Prelim) 1 pt

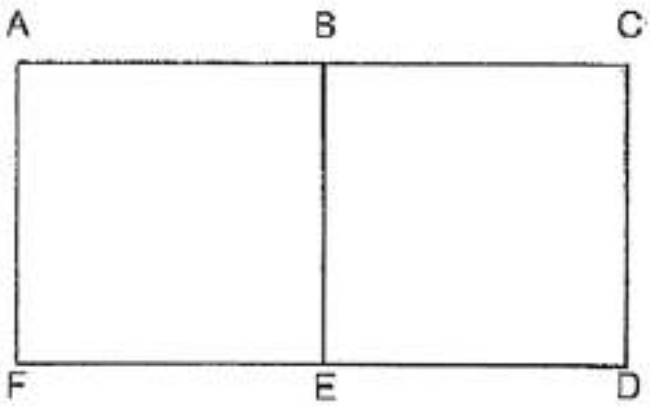
A box of cookies was shared between Jesse and Linn in the ratio of 7:4. Linn then decided to share her portion of cookies with her younger brother in the ratio 5:3 while Jesse shared her portion of the cookies with her elder sister in the ratio 4:3. Among the four of them, the smallest portion of cookies was 12 pieces. How many pieces of cookies were there in the box at first?

- **A)** 33
- **B)** 44
- **C)** 66
- **D)** 88

Question 15 of 52

Primary 6 Math (Prelim) 1 pt

The map below shows the locations of 6 places, A, B, C, D, E and F. ABEF and BCDE are squares. Location C is south of location E. Which of the following location is north-east of B?



- **A)** A
- **B)** C
- **C)** D
- **D)** F

Question 16 of 52

Primary 6 Math (Prelim) 1 pt

In a sports race, Ethan had to complete swimming, cycling and running. The table below shows the time taken for each sports.

Segments	Time Taken (min)
Swimming	39
Cycling	58
Running	46

What was the total time Ethan took to complete the 3 sports? Give your answer in hours and minutes.

Question 17 of 52

Primary 6 Math (Prelim) 1 pt

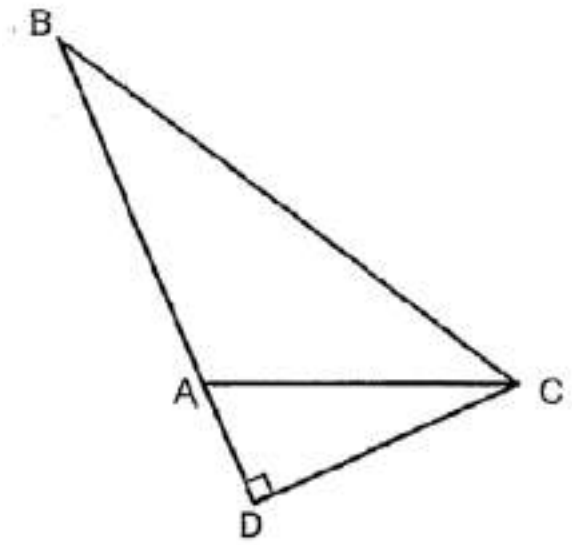
Match the options below from the lightest to the heaviest:

1. [ ]	6kg 35g	A.	middle
2. [ ]	$6\frac{1}{3}$ kg	B.	lightest
3. [ ]	6.35kg	C.	heaviest

Question 18 of 52

Primary 6 Math (Prelim) 1 pt

In the figure below, BD is 20 cm and CD is 8 cm. AD is $\frac{1}{4}$ of BD. Find the area of triangle ABC.



Question 19 of 52

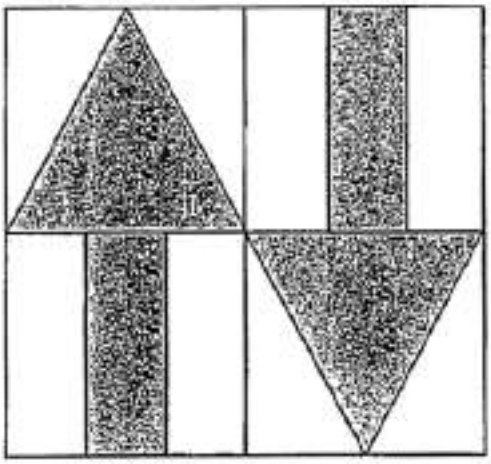
Primary 6 Math (Prelim) 1 pt

What is the fraction exactly between $\frac{2}{7}$ and $\frac{2}{5}$?

Question 20 of 52

Primary 6 Math (Prelim) 1 pt

The figure is made up of 4 squares. Two of the squares are divided equally into 3 rectangles. What fraction of the figure is shaded?



Question 21 of 52

Primary 6 Math (Prelim) 1 pt

Find the value of $83 - \frac{74 - 6y}{y} - y$ when $y = 4$.

Question 22 of 52

Primary 6 Math (Prelim) 1 pt

The table below shows the number of hours that a group of 24 students spent on building a model in a day.

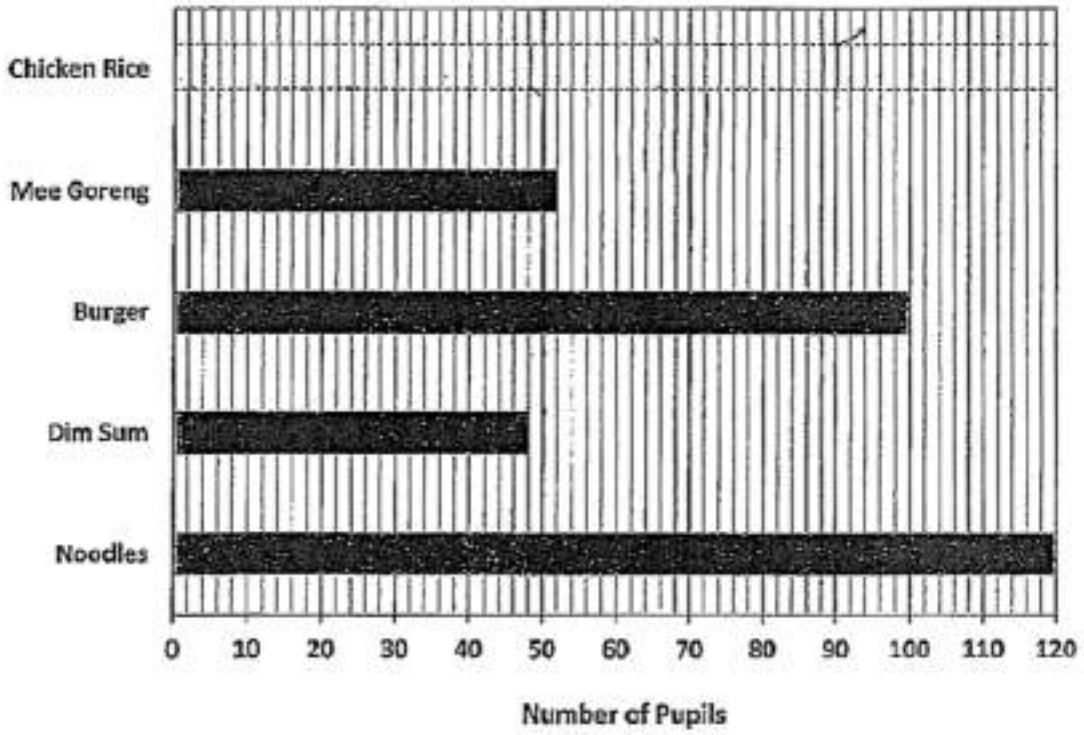
Number of hours spent by each pupil	0	3	4	5
Number of pupils	2	9	8	5

What is the average number of hours each student spent on building the model each day?

Question 23 of 52

Primary 6 Math (Prelim) 0 pts

The bar graph shows the type of food consumed by a group of pupils in a school canteen. The bar that shows the number of pupils who consumed chicken rice has not been drawn.

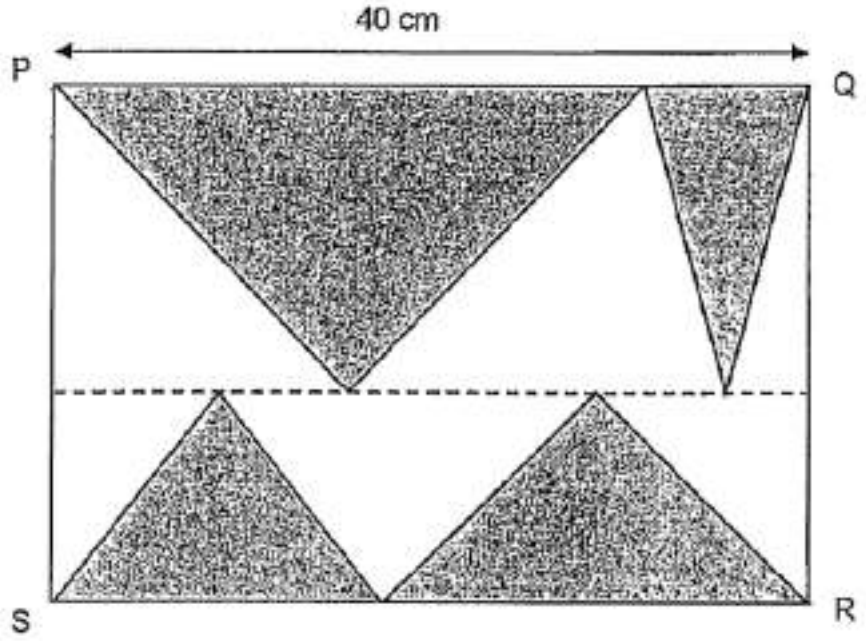


20% of the pupils in the canteen consumed chicken rice. Draw the bar that shows the number of pupils who consumed chicken rice in the graph above.

Question 24 of 52

Primary 6 Math (Prelim) 1 pt

The figure below shows 4 shaded triangles inside rectangle PQRS. The dotted line is parallel to PQ and SR. The total shaded area is 500 cm². Find the length of QR.



Question 25 of 52

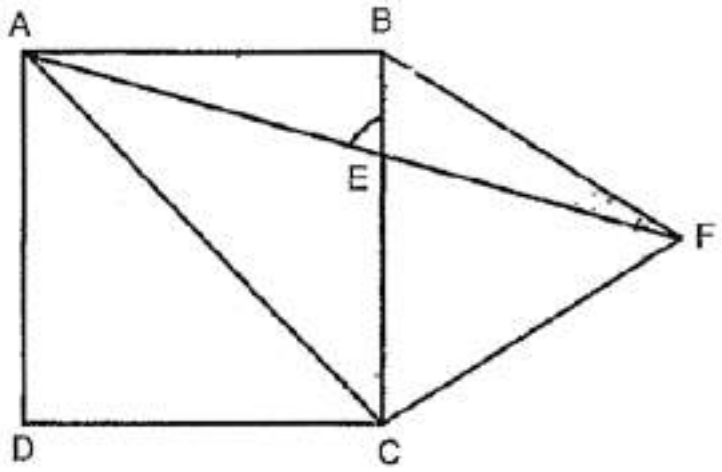
Primary 6 Math (Prelim) 1 pt

Tina packed some gift bags for charity drive. She packed 7 bottles of hand sanitisers, 4 masks and 2 granola bars into every gift bags. She used 117 more hand sanitisers than mask for all her gift bags. How many granola bars did Tina pack altogether?

Question 26 of 52

Primary 6 Math (Prelim) 1 pt

In the figure below, not drawn to scale, ABCD is a square and BCF is an equilateral triangle. AEF is a straight line. Find $\angle AEB$.



Question 27 of 52

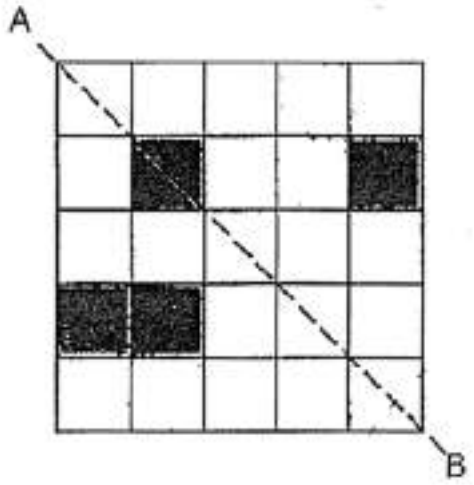
Primary 6 Math (Prelim) 1 pt

There were 150 members in a club in March. This was an increase of 20% when compared to February. In April, only 115 members remained in the club. What is the percentage decrease in the number of members in April compared to February?

Question 28 of 52

Primary 6 Math (Prelim) 0 pts

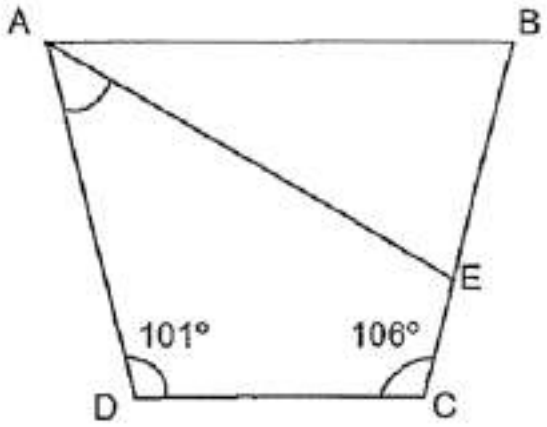
In the figure below, shade the minimum additional number of squares so that AB is the line of symmetry for the figure.



Question 29 of 52

Primary 6 Math (Prelim) 1 pt

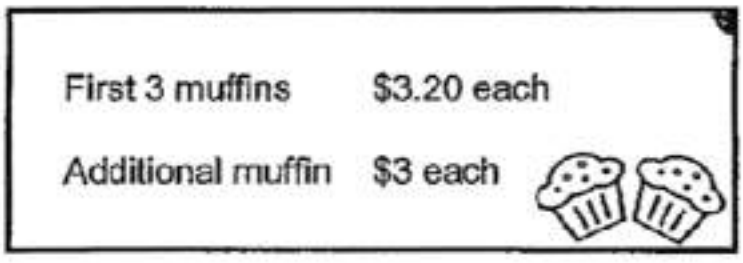
ABCD is a trapezium. ∠BCD = 106° and ∠ADC = 101°. AB = AE.
Find ∠DAE.



Question 30 of 52

Primary 6 Math (Prelim) 1 pt

Kelly has $38. What is the greatest number of muffins she can buy?



Question 31 of 52

Primary 6 Math (Prelim) 1 pt

For every box of surgical masks he sells, Mr Lee earns $12. An additional $8 is given to him for every 10 boxes of surgical masks he sells. How many boxes of surgical mask must Mr Lee sell to make $3200?

Question 32 of 52

Primary 6 Math (Prelim) 1 pt

A rectangular swimming pool 20m wide, 60m long and 4m deep, contains 800m3 of water. How much more water has to be added so that the water level is 30cm from the top? Give your answer in cubic metres.

Question 33 of 52

Primary 6 Math (Prelim) 1 pt

During a sale, a departmental store gave a storewide discount of 25%. Mr Tan who is a member of the departmental store was entitled to an additional 8% discount on the discounted price. What was the total discount he enjoyed?

Question 34 of 52

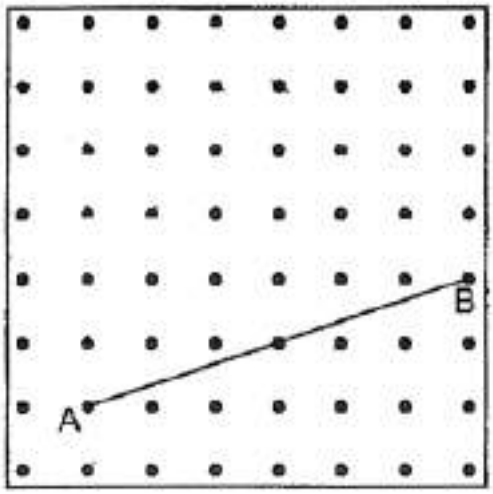
Primary 6 Math (Prelim) 1 pt

The average mass of a group of children was 66.8kg. When Mrs Pang measured and recorded the mass of these children, she wrongly recorded one child's mass as 59kg when it should have been 95kg. As a result, Mrs Pang calculated the average mass as 64.8kg. How many child were there in the group?

Question 35 of 52

Primary 6 Math (Prelim) 0 pts

In the grid below, by joining dots, draw 4 more straight lines to create two isosceles triangle ABC and ABD. Label all points.



Please type "done" to proceed to the next question

Question 36 of 52

Primary 6 Math (Prelim) 1 pt

April went to the supermarket to buy some toilet rolls for the family. Toilet rolls were sold at the prices shown below.

Big Pack	Small Pack
$ (3n - 2)	$ (n + 3)

She bought 1 big pack and 2 small packs. She paid the cashier $50 and received $21 change. What is the value of n?

Question 37 of 52

Primary 6 Math (Prelim) 1 pt

John wanted to saved some money. He saved $8 each day from Monday to Friday and $16 each day on Saturday and Sunday. Starting on Thursday, how many days did John take to save $480?

Question 38 of 52

Primary 6 Math (Prelim) 1 pt

The table below shows the time Wilson took for 4 x 10m shuttle run during his training sessions.

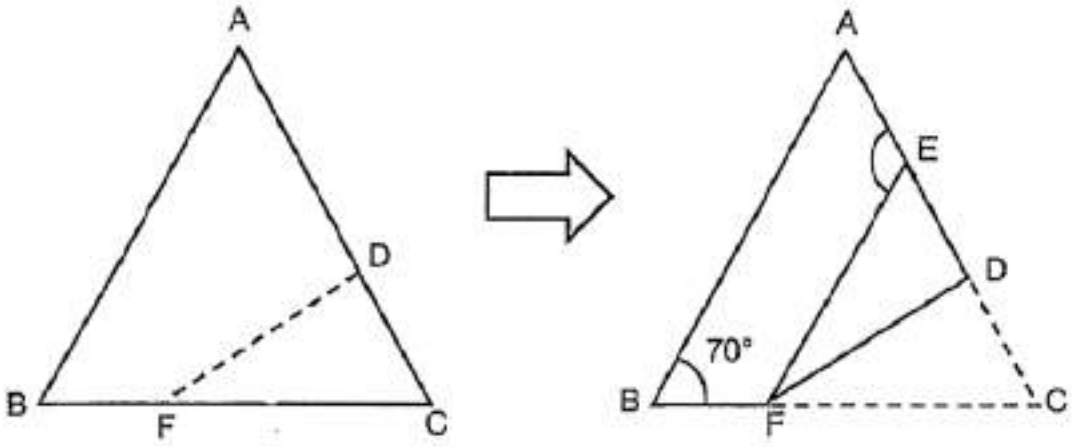
Attempt	1st	2nd	3rd	4th	5th	6th	7th	8th
Time taken (in seconds)	13.1	12.5	11	11.8	12.2	12	11.4	?

If he wants to improve his average time taken by 0.3 seconds, what timing should he attain for his 8th attempt?

Question 39 of 52

Primary 6 Math (Prelim) 1 pt

The figure on the left, not drawn to scale, is a triangular piece of paper ABC. It is folded along the dotted line FD to obtain the figure on the right such that AB is parallel to EF. AEDC is a straight line. ∠ABF = 70°. Find ∠AEF.



Question 40 of 52

Primary 6 Math (Prelim) 1 pt

The table below shows the charges for water usage.

Volume of water	Charges
First 40 m^3	\$1.21 per m^3
Every additional cubic metre	\$1.52 per m^3

a) The Lee family used 32 m^3 of water in June. How much did the Lee family pay for the water used?

Question 41 of 52

Primary 6 Math (Prelim) 1 pt

b) The Ali family used 58m3 of water in June. How much more did the Ali family pay than the Lee Family for the water used in June?

Question 42 of 52

Primary 6 Math (Prelim) 1 pt

Admission tickets for a school musical performance were sold to adults and children at different prices as shown in the table below.

	Price per ticket
Adult	$30
Child	$12

(a) Mrs Goh spent an equal amount of money on the adult and child tickets. What fraction of the tickets she bought were adult tickets?

Question 43 of 52

Primary 6 Math (Prelim) 1 pt

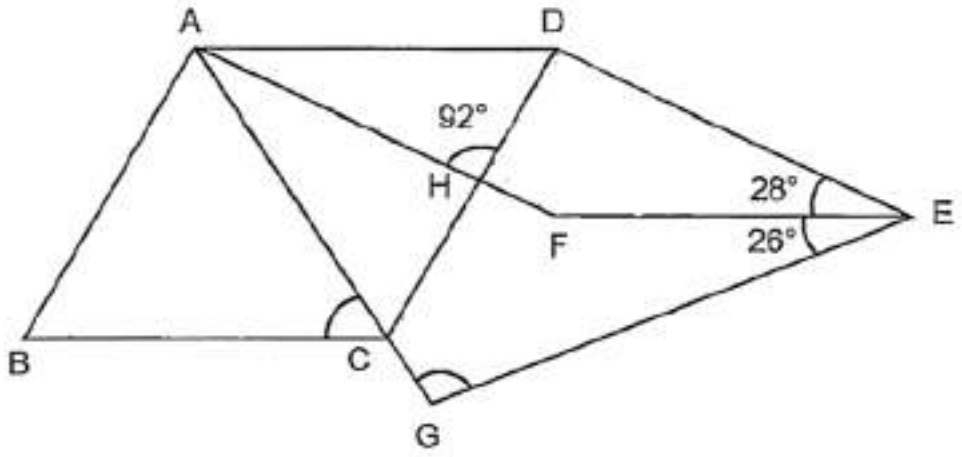
(b) The school collected a total of $11760 from selling tickets for the musical performance. The number of adult tickets sold was $\frac{3}{10}$ the number of child tickets sold. How many child tickets were sold?

Question 44 of 52

Primary 6 Math (Prelim) 1 pt

.. In the figure below, not drawn to scale, ABCD and ADEF are rhombuses. ACG is a straight line. ∠AHD = 92°, ∠DEF = 28°. ∠FEG = 26°.

(a) Find ∠ACB.



Question 45 of 52

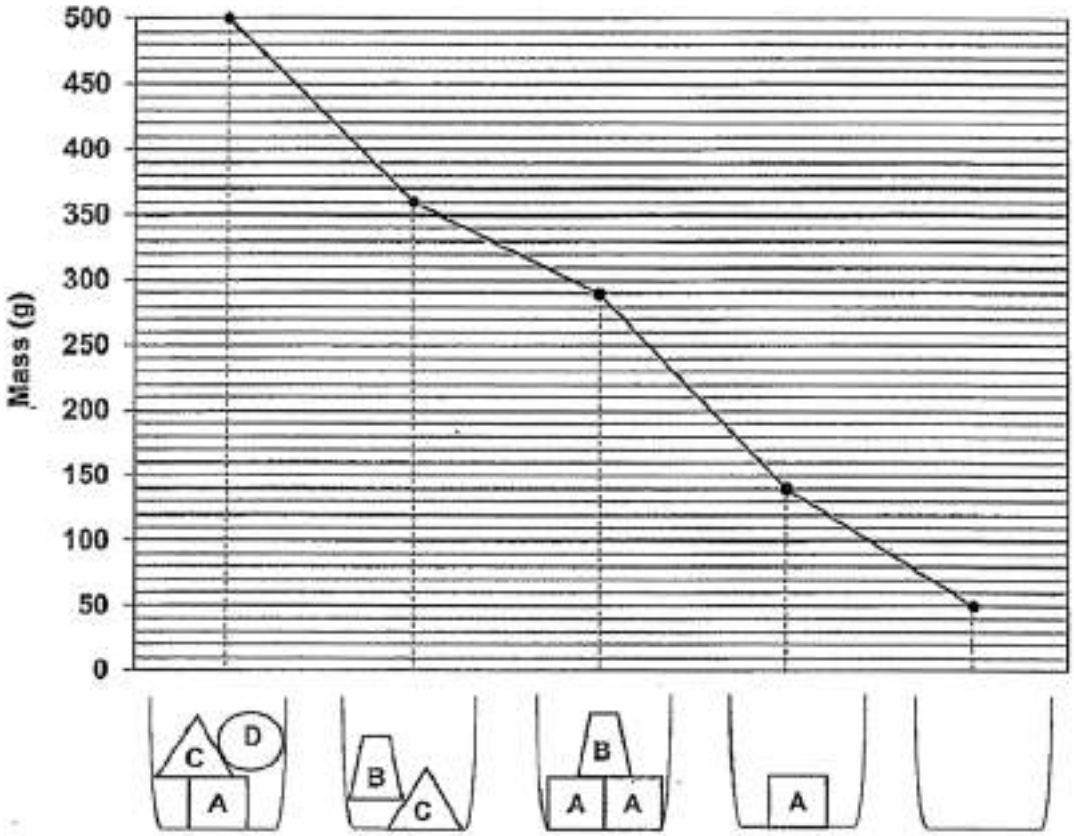
Primary 6 Math (Prelim) 1 pt

b) Find AGE

Question 46 of 52

Primary 6 Math (Prelim) 1 pt

The line graph below shows the mass of a container when empty and when different combinations of objects, A, B, C and D are placed in the container.



a) What is the mass of Object B?

Question 47 of 52

Primary 6 Math (Prelim) 1 pt

b) What is the total mass of objects A,B and D?

Question 48 of 52 Primary 6 Math (Prelim) 1 pt

Sofie had some cupcakes. She had 72 more chocolate cupcakes than red velvet cupcakes. She had 36 fewer blueberry cupcakes than red velvet cupcakes. After selling $\frac{1}{6}$ of the chocolate cupcakes, $\frac{2}{3}$ of the red velvet cupcakes and $\frac{7}{9}$ of the blueberry cupcakes, Sofie had 427 cupcakes left altogether. How many chocolate cupcakes did Sofie sell?

Question 49 of 52 Primary 6 Math (Prelim) 1 pt

Mrs Tan bought some forks and spoons in the ratio of 4:3. Each spoon cost 50cents more than each fork. She spent a total of $156 on the forks and spoons. The amount she spent on the forks was $12 more than the amount she spent on the spoons.

a) How much did she spend on the spoons?

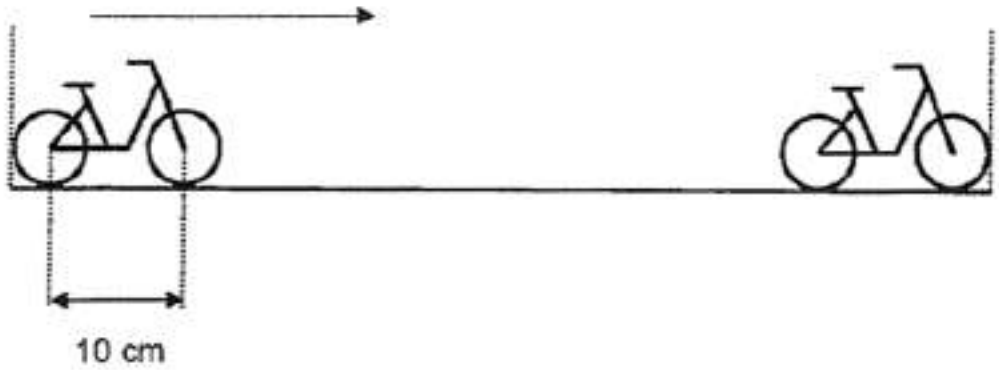
Question 50 of 52 Primary 6 Math (Prelim) 1 pt

b) How many forks and spoons did she buy altogether?

Question 51 of 52

Primary 6 Math (Prelim) 1 pt

Jeff had a toy bicycle fixed on a straight track. He pushed the bicycle from one end of the track to the other end of the track where it stopped. The radius of the wheels is 3.5 cm and the distance between the 2 centers of the wheels is 10 cm. The length of the track is 259 cm. How many revolutions did each wheel make? (Take $\pi = \frac{22}{7}$)



Question 52 of 52 Primary 6 Math (Prelim) 1 pt

The figure below is made up of rectangle ABFG and square BCDE. AC = 52 cm and EF = 8 cm. The perimeters of rectangle ABFG and square BCDE are the same. Find the area of the figure.