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Primary 6 Math (Term 4) - SCGS

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Test Introduction

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54 Questions (97 Points)

Question Bank: 12,655 Questions

Test Questions	0 Test Assignments
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Question 1

Primary 6 Math » Primary 6 Math (Prelim)

1 pt

For each question, four options are given. One of them is the correct answer. (20 marks)

What is the value of the digit 7 in 507 030?

- A. 7
- B. 70
- C. 700
- ✓ D. 7000

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,593,968

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Question 2

Primary 6 Math » Primary 6 Math (Prelim)

2 pts

Kavani packed 30 sweets equally into some goodie bags. She also packed 48 chocolates equally into these goodie bags. How many sweets and chocolates are there in each bag? *goodie*

- A. 6
- B. 12
- ✓ C. 13
- D. 4

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,593,965

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Question 3

Primary 6 Math » Primary 6 Math (Prelim)

2 pts

25% of the fruits at the fruit stall are oranges. 20% of the remainder are apples. The rest are pears. What percentage of the fruits are pears?

- A. 5%
- B. 15%
- C. 55%
- ✓ D. 60%

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,593,966

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Question 4

Primary 6 Math » Primary 6 Math (Prelim)

2 pts

Dani can read 4 pages in 18 minutes. How long will she take to finish a book with 30 pages?

- A. 1h 15 min
- B. 1h 35 min

- ✓ C. 2h 15 min
- D. 2h 35 min

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,593,967

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Question 5

Primary 6 Math » Primary 6 Math (Prelim)

2 pts

There was a \$3 discount for every \$30 spent at a departmental store.
Charlotte paid \$82 for the dress. What was the original price of that dress?

- A. \$84
- B. \$88
- C. \$90
- ✓ D. \$91

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,593,969

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Question 6

Primary 6 Math » Primary 6 Math (Prelim)

1 pt

Find the value of $0.16 \div 40$.

- ✓ A. 0.004
- B. 0.04
- C. 0.4
- D. 4

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,593,970

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Question 7

Primary 6 Math » Primary 6 Math (Prelim)

1 pt

What is the approximate height of a flagpole?

- A. 45 cm
- ✓ B. 250 cm
- C. 52.5 m
- D. 0.15 km

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,593,971

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Question 8

Primary 6 Math » Primary 6 Math (Prelim)

1 pt

Which of the following fraction is closest to $\frac{1}{3}$?

- A. $\frac{1}{6}$
- B. $\frac{4}{9}$
- C. $\frac{1}{12}$
- ✓ D. $\frac{4}{15}$

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,593,972

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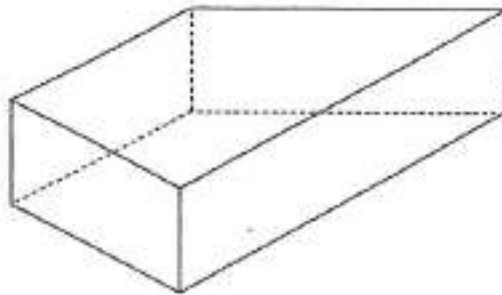
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Question 9

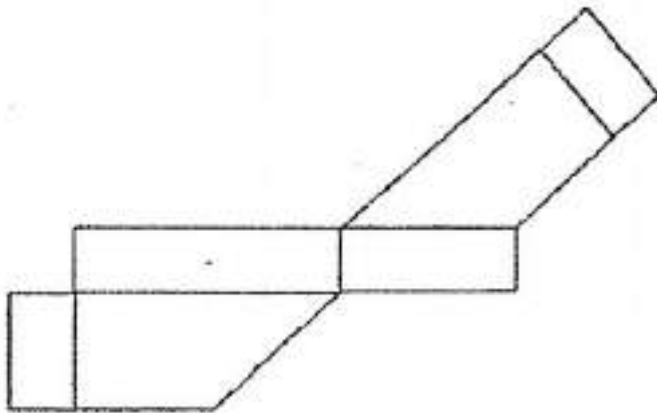
Primary 6 Math » Primary 6 Math (Prelim)

2 pts

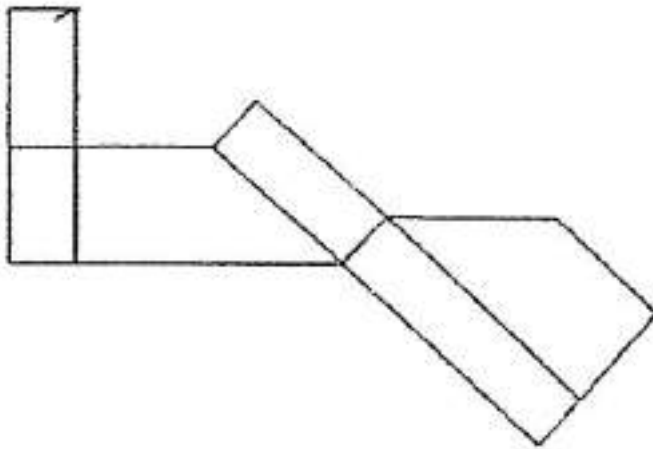
Which of the following is the net of the cuboid below?



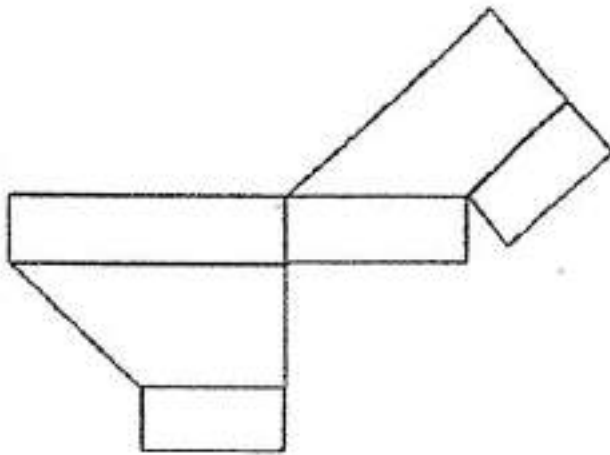
A.



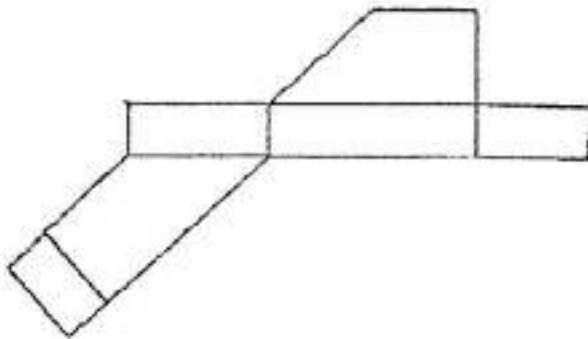
✓ B.



C.



D.



Question Type: Multiple Choice
Randomize Answers: No
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,593,973

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Question 10

Primary 6 Math » Primary 6 Math (Prelim)

1 pt

What is the value of $36 - 6 / 3 + 2 \times 4$?

- A. 18
- B. 26
- ✓ C. 42
- D. 48

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,593,974

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Question 11

Primary 6 Math » Primary 6 Math (Prelim)

1 pt

The square is cut from the center into 4 parts. Which of the following three parts will add up to form $\frac{5}{8}$ of the square?

- ✓ A. A, B and C
- B. A, B and D
- C. A, C and D
- D. B, C and D

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,593,975

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Question 12

Primary 6 Math » Primary 6 Math (Prelim)

1 pt

Find the sum of all the factors of 12.

- A. 13

- B. 15
- C. 27
- ✓ D. 28

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,593,976

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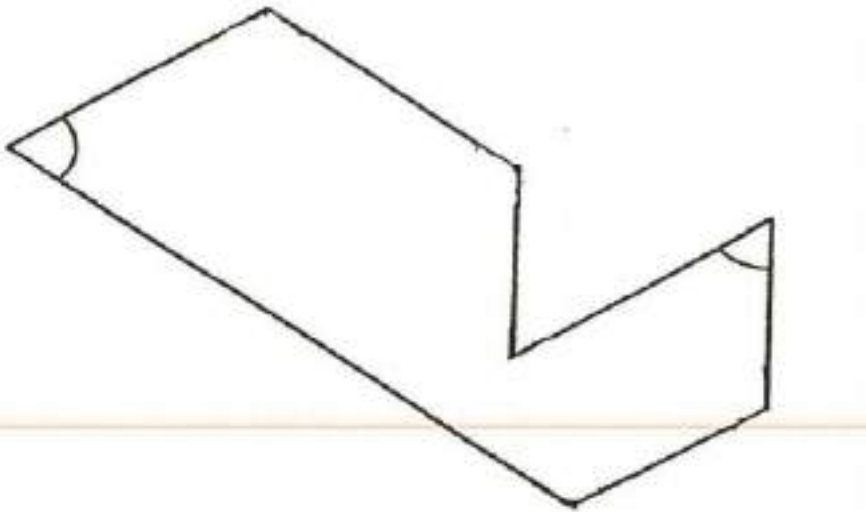
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Question 13

Primary 6 Math » Primary 6 Math (Prelim)

1 pt

In the figure below, how many angles are greater than 90° ?



- ✓ A. 5
- B. 2
- C. 3
- D. 7

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,593,977

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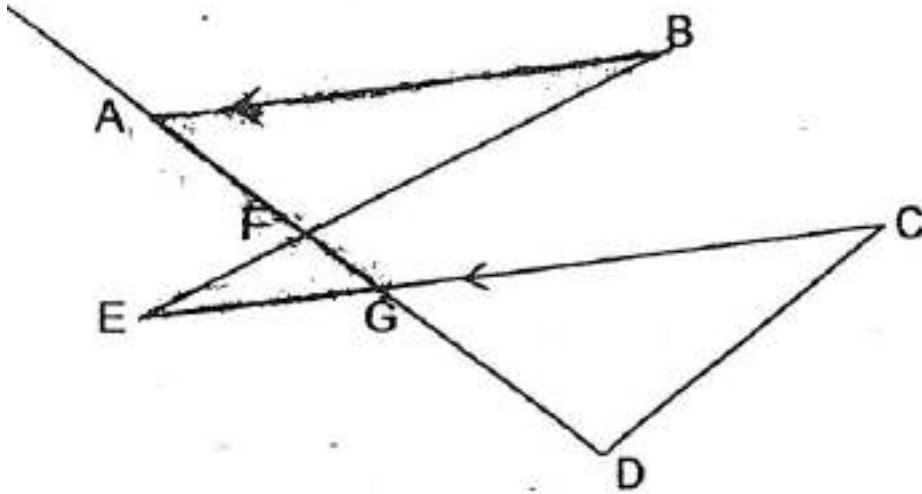
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Question 14

Primary 6 Math » Primary 6 Math (Prelim)

1 pt

Which angle is similar to $\angle BAF$?



- A. Angle AGC
- ✓ B. Angle AGE
- C. Angle BEC
- D. Angle BFD

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,593,978

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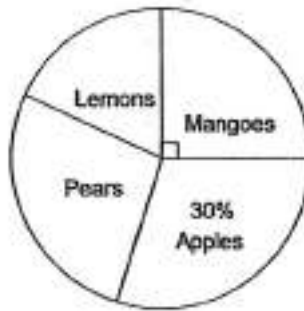
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Question 15

Primary 6 Math » Primary 6 Math (Prelim)

1 pt

Mr Chong sold fruits as shown in the pie chart below. He sold $\frac{2}{3}$ as many lemons as pears. What is the ratio of the number of apples to the number of lemons sold?



- A. 2:03
- B. 3:01
- C. 3:02
- ✓ D. 5:03

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,593,979

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Question 16

Primary 6 Math » Primary 6 Math (Prelim)

1 pt

Each question carries 1 mark. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

Find the value of A.



Accepted answers:

- ✓ 2.35
- ✓ 2 .35

✓ 2.35

✓ 2.35

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,593,994

↗ Answers | ✎ Edit | 📄 Duplicate | ↶ Used In | ⚡ Reorder

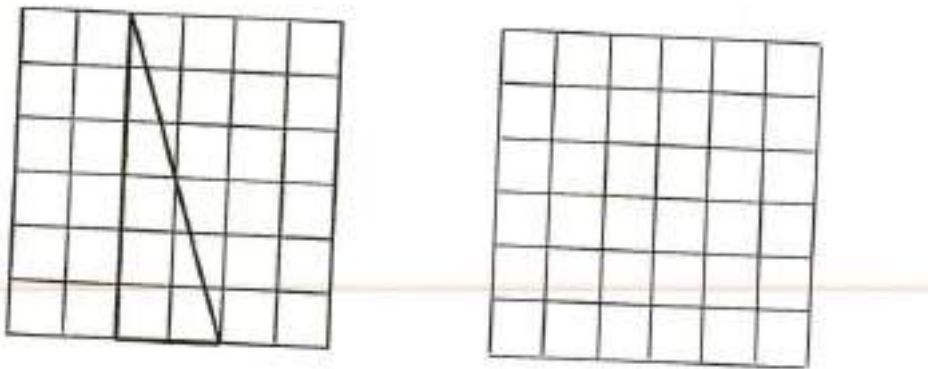
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Question 17

Primary 6 Math » Primary 6 Math (Prelim)

0 pts

Draw an isosceles triangle with half the area as the triangle shown below.



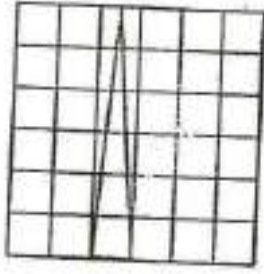
(2 marks)

This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

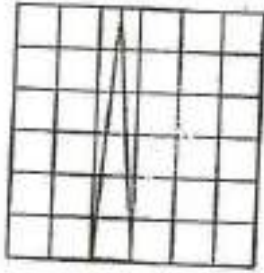
Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question Type: Essay
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,593,983

Correctly answered feedback



Incorrectly answered feedback



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Question 18

Primary 6 Math » Primary 6 Math (Prelim)

1 pt

Each question carries 2 marks. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

Use all the digits 3, 4, 5, 8 to form the largest even number.

Accepted answers:

- ✓ 8534
- ✓ 8 534
- ✓ 8,534
- ✓ 8, 534
- ✓ 8 ,534
- ✓ 8 , 534

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,594,006

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Question 19

Primary 6 Math » Primary 6 Math (Prelim)

2 pts

The average of height of 3 children is 1.25 m. A 4th child joins the group.
What is the average height of the 4 children if the 4th child is 1.33 m?

Accepted answers:

- ✓ 1.27 cm
- ✓ 1. 27cm
- ✓ 1.27cm
- ✓ 1 .27 cm
- ✓ 1 . 27cm
- ✓ 1 . 27 cm

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,593,985

Correctly answered feedback

New total: $(1.25\text{m} \times 3) + 1.33\text{m} = 5.08\text{m}$
 New avg: $5.08\text{m} / 4 = 1.27 \text{ cm}$

Incorrectly answered feedback

New total: $(1.25\text{m} \times 3) + 1.33\text{m} = 5.08\text{m}$
 New avg: $5.08\text{m} / 4 = 1.27 \text{ cm}$

[↗ Answers](#) | [✎ Edit](#) | [📄 Duplicate](#) | [📌 Used In](#) | [⬇️ Reorder](#)

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Question 20

Primary 6 Math » Primary 6 Math (Prelim)

2 pts

Mr Lim has a bookshelf which can be fully packed with either 18 school files or 42 exercise books. Mr Tan also has an identical bookshelf. If Mr Tan has 14 exercise books in his bookshelf, how many school files are needed to fill up the bookshelf?

Accepted answers:

- ✓ 12 school files
- ✓ 12

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,593,986

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Question 21

Primary 6 Math » Primary 6 Math (Prelim)

2 pts

The total surface area of a cube is 54^2 cm. Find the volume of the cube.

Accepted answers:

- ✓ 27 cm cube
- ✓ 27cm cube

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,593,987

Correctly answered feedback

27 cm³

Incorrectly answered feedback

27 cm³[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)[Remove From Test](#)

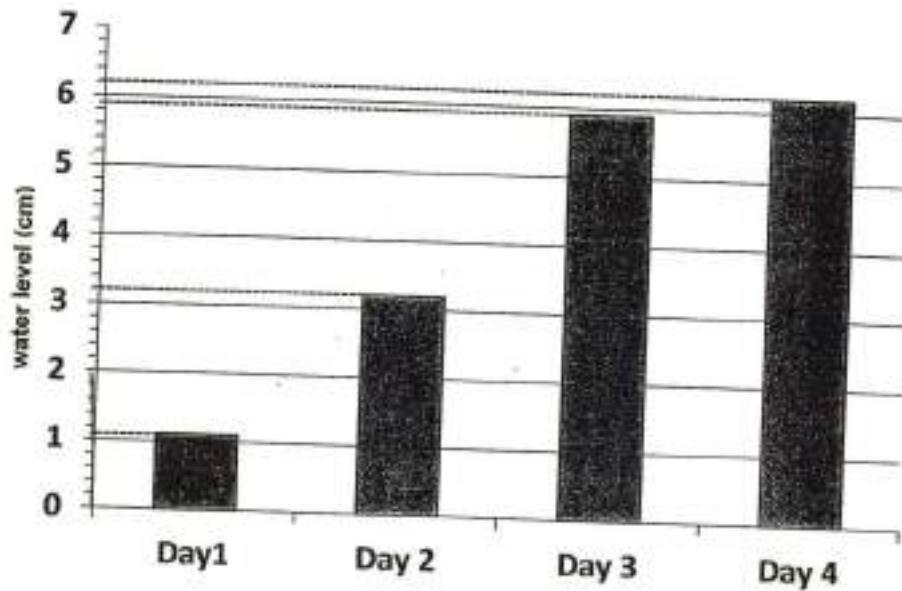
Question 22

Primary 6 Math » Primary 6 Math (Prelim)

1 pt

Mr Chee wanted to measure the amount of rainfall during a rainy season. He placed an empty beaker and observed the water level of the beaker and the results are shown in the graph below.

- (a) What is the increase in water level from Day 1 to Day 2?
 (b) Find the average water level in the beaker over 4 days.



What is the increase in water level from Day 1 to Day 2?

Accepted answers:

- ✓ 2.1 cm
- ✓ 2.1cm
- ✓ 2 . 1cm
- ✓ 2. 1cm
- ✓ 2. 1 CM
- ✓ 2 . 1 cm
- ✓ 2 .1cm
- ✓ 2 .1 Cm
- ✓ 2.1

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,593,984

Correctly answered feedback

Diff: $3.2 \text{ cm} - 1.1 \text{ cm} = 2.1 \text{ cm}$

Incorrectly answered feedback

Diff: 3.2 cm - 1.1 cm = 2.1 cm

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Question 23

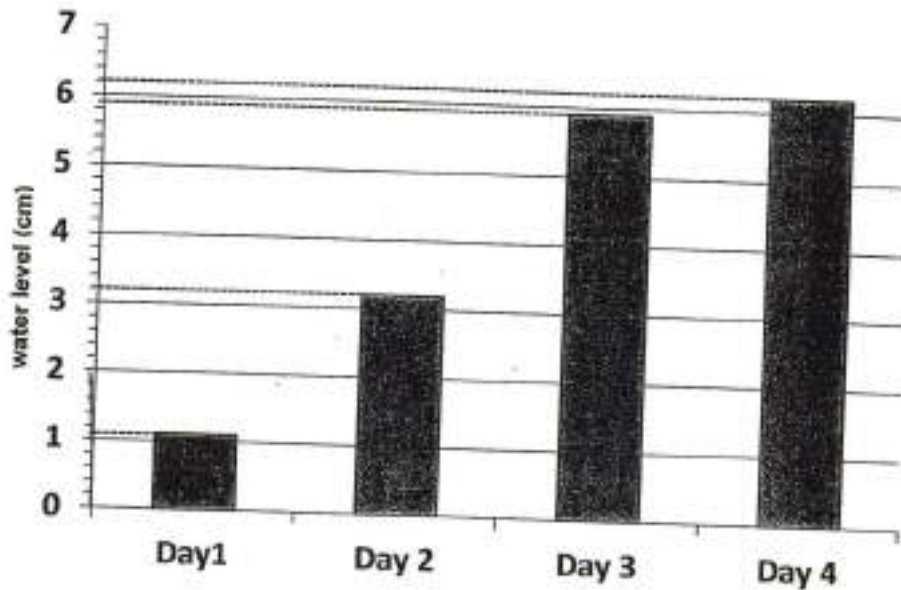
Primary 6 Math » Primary 6 Math (Prelim)

2 pts

Mr Chee wanted to measure the amount of rainfall during a rainy season. He placed an empty beaker and observed the water level of the beaker and the results are shown in the graph below.

(a) What is the increase in water level from Day 1 to Day 2?

(b) Find the average water level in the beaker over 4 days.



Find the average water level in the beaker over 4 days?

Accepted answers:

- ✓ 4.1 cm
- ✓ 4.1cm
- ✓ 4.1
- ✓ 4. 1
- ✓ 4 . 1
- ✓ 4 . 1
- ✓ 4 . 1 cm
- ✓ 4. 1cm
- ✓ 4. 1 cm
- ✓ 4 . 1cm

Question Type: Free Text

Date Added: Mon 2nd Aug 2021
 Last Modified: N/A
 QID#: 28,593,988

Correctly answered feedback

Avg: $(1.1 \text{ cm} + 3.2 \text{ cm} + 5.9 \text{ cm} + 6.2 \text{ cm}) / 4 = 4.1 \text{ cm}$

Incorrectly answered feedback

Avg: $(1.1 \text{ cm} + 3.2 \text{ cm} + 5.9 \text{ cm} + 6.2 \text{ cm}) / 4 = 4.1 \text{ cm}$

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Question 24

Primary 6 Math » Primary 6 Math (Prelim)

2 pts

$\frac{1}{6}$ of Pauline's money is equal to $\frac{2}{3}$ of Sandra's money. How much money does Pauline have if she has \$90 more than Sandra?

Ans: \$_____

Accepted answers:

✓ \$120

✓ 120

Question Type: Free Text

Date Added: Mon 2nd Aug 2021

Last Modified: N/A

QID#: 28,593,989

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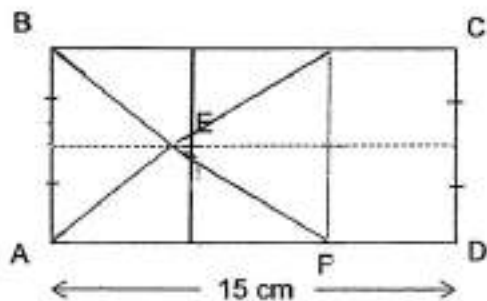
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Question 25

Primary 6 Math » Primary 6 Math (Prelim)

3 pts

The figure below, not drawn to scale, is made up of a rectangle ABCD and a triangle AEF. The ratio of the area of rectangle to the area of triangle is 6 : 1 . Find length AF given that the length of the rectangle AD is 15 cm.



Accepted answers:

- ✓ 10 cm
- ✓ 10cm
- ✓ 10

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,593,990

Correctly answered feedback

$$AF \rightarrow \frac{2}{3} \times 15 \text{ cm} \Rightarrow \underline{10 \text{ cm}}$$

Incorrectly answered feedback

$$AF \rightarrow \frac{2}{3} \times 15 \text{ cm} \Rightarrow \underline{10 \text{ cm}}$$

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Question 26

Primary 6 Math » Primary 6 Math (Prelim)

4 pts

Hendry and Jacky were at Town A and Town B respectively, 39 km apart. Hendry started driving towards Town B at a speed of 65 km/h. 6 minutes later, Jacky started driving towards Town A and eventually, they drove past each other at the midpoint of Town A and B. Find Jacky's speed.

Accepted answers:

- ✓ 97 1/2 km/h
- ✓ 97.5 km/h
- ✓ 97 1/2km/h
- ✓ 97 1/2km / h
- ✓ 97 1/2 km / h

Question Type: Free Text
Date Added: Mon 2nd Aug 2021

Last Modified: N/A
 QID#: 28,593,991

Correctly answered feedback

$$\text{Dist. travelled by each person} \rightarrow \frac{39 \text{ km}}{2} = 19\frac{1}{2} \text{ km}$$

$$\text{Time taken by Henry} \rightarrow 19\frac{1}{2} \text{ km} \div 65 \text{ km/h} = \frac{3}{10} \text{ h}$$

$$\text{Time taken by Jacky} \rightarrow \frac{5}{10} \text{ h} - \frac{1}{10} \text{ h} = \frac{1}{5} \text{ h}$$

$$\text{Jacky's speed} \rightarrow 19\frac{1}{2} \text{ km} \div \frac{1}{5} \text{ h} = 97\frac{1}{2} \text{ km/h}$$

Incorrectly answered feedback

$$\text{Dist. travelled by each person} \rightarrow \frac{39 \text{ km}}{2} = 19\frac{1}{2} \text{ km}$$

$$\text{Time taken by Henry} \rightarrow 19\frac{1}{2} \text{ km} \div 65 \text{ km/h} = \frac{3}{10} \text{ h}$$

$$\text{Time taken by Jacky} \rightarrow \frac{5}{10} \text{ h} - \frac{1}{10} \text{ h} = \frac{1}{5} \text{ h}$$

$$\text{Jacky's speed} \rightarrow 19\frac{1}{2} \text{ km} \div \frac{1}{5} \text{ h} = 97\frac{1}{2} \text{ km/h}$$

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Question 27

Primary 6 Math » Primary 6 Math (Prelim)

2 pts

Donna has an elder brother. Her brother is 6 years more than twice of Donna's age. How old is Donna if their total age is 30?

Accepted answers:

✓ 8 years old

✓ 8

Question Type: Free Text

Date Added: Mon 2nd Aug 2021
 Last Modified: N/A
 QID#: 28,593,992

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Question 28

Primary 6 Math » Primary 6 Math (Prelim)

4 pts

There were red, blue and green and yellow marbles in a bag. The number of red marbles is 30% of the number of blue and green marbles. The ratio of the number of blue, green and yellow marbles to the number of the total number of marbles in the bag is 5 : 6. Given that there are 54 red marbles in the bag, how many yellow marbles are there in the bag?

Accepted answers:

- ✓ 90 yellow marbles
- ✓ 90

Question Type: Free Text
 Date Added: Mon 2nd Aug 2021
 Last Modified: N/A
 QID#: 28,593,993

Correctly answered feedback

3 units → 54

$$1 \text{ unit} \rightarrow \frac{54}{3} = 18$$

Yellow units → 15 – 10 units = 5 units

5 units → 18 x 5 ⇒ 90 yellow marbles

Incorrectly answered feedback

3 units \rightarrow 54

$$\mathbf{1 \text{ unit} \rightarrow \frac{54}{3} = 18}$$

Yellow units $\rightarrow 15 - 10 \text{ units} = 5 \text{ units}$

5 units $\rightarrow 18 \times 5 \Rightarrow$ 90 yellow marbles

[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

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Question 29

Primary 6 Math » Primary 6 Math (Prelim)

2 pts

Andrea baked y mini-cupcakes on Monday and five times as many on Tuesday. She then kept $\frac{1}{3}$ of the mini-cupcakes for her family and friends and packed the remaining mini-cupcakes into packets of 3 and sold them at \$5 per packet at a school carnival.

Express the amount of money Andrea earned in terms of y .

Accepted answers:

- ✓ \$20y/3
- ✓ \$20y / 3
- ✓ \$20 y/3
- ✓ \$20 y / 3
- ✓ 20y/3
- ✓ 20y / 3
- ✓ 20 y / 3

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,593,995

Correctly answered feedback

$$\text{Total} \rightarrow y + 5xy = 6y$$

$$\text{Packed} \rightarrow \frac{2}{3} \times 6y = 4y$$

$$\text{No. of packets} \rightarrow \frac{4y}{3}$$

$$\text{Earned} \rightarrow \frac{4y}{3} \times \$5 \Rightarrow \frac{\$20y}{3}$$

(in terms of y)

Incorrectly answered feedback

$$\text{Total} \rightarrow y + 5xy = 6y$$

$$\text{Packed} \rightarrow \frac{2}{3} \times 6y = 4y$$

$$\text{No. of packets} \rightarrow \frac{4y}{3}$$

$$\text{Earned} \rightarrow \frac{4y}{3} \times \$5 \Rightarrow \frac{\$20y}{3}$$

(in terms of y)

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Question 30

Primary 6 Math » Primary 6 Math (Prelim)

2 pts

Andrea baked y mini-cupcakes on Monday and five times as many on Tuesday. She then kept $\frac{1}{3}$ of the mini-cupcakes for her family and friends and packed the remaining mini-cupcakes into packets of 3 and sold them at \$5 per packet at a school carnival.

Given that $y = 75$, how much did she earn for the carnival?

Accepted answers:

- ✓ \$500
- ✓ 500

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,593,997

Correctly answered feedback

$$\text{Earned} \rightarrow \frac{\$20 \times 75}{3} \Rightarrow \underline{\$500}$$

Incorrectly answered feedback

$$\text{Earned} \rightarrow \frac{\$20 \times 75}{3} \Rightarrow \underline{\$500}$$

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Question 31

Primary 6 Math » Primary 6 Math (Prelim)

1 pt

Round off 1.095 to the nearest hundredth.

Accepted answers:

- ✓ 1.1
- ✓ 1 .10
- ✓ 1. 10
- ✓ 1 . 10
- ✓ 1 . 1
- ✓ 1. 1
- ✓ 1.1

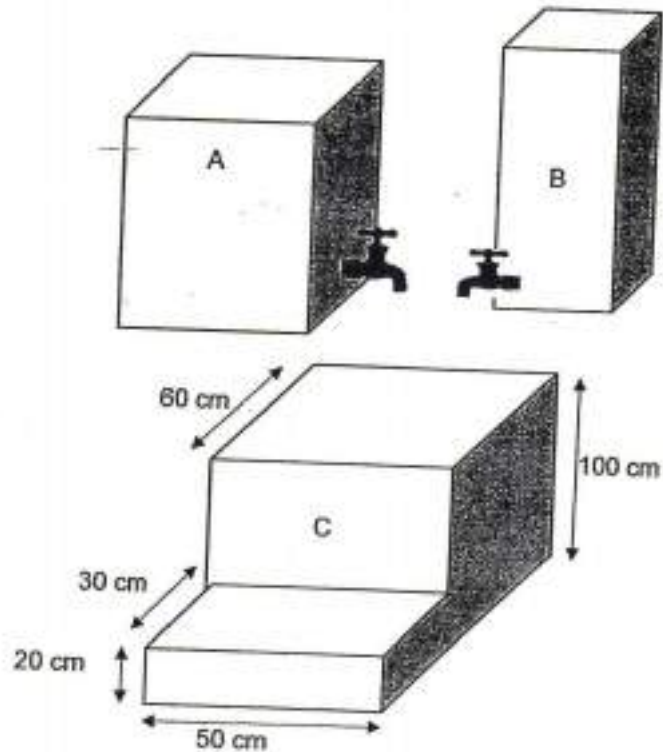
Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,593,996

Question 32

Primary 6 Math » Primary 6 Math (Prelim)

4 pts

Mrs Wee has a cubic container A completely filled with water. Water flowed out from container A into container C as shown below. At the same time, water from container B was also filling container C at a rate of 7200 cm^3 per minute. After 10 minutes, the water level in both containers A and C is half of the height of their containers. Find the length of one side of container A.



Accepted answers:

- ✓ 60 cm
- ✓ 60cm
- ✓ 60

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,593,998

Correctly answered feedback

Total volume of water $\rightarrow 50\text{cm} \times 30\text{cm} \times 20\text{cm} + \frac{1}{2} \times 50\text{cm} \times 60\text{cm} \times 100\text{cm}$
 $= 180\,000\text{ cm}^3$
 Volume of water from A $\rightarrow 180\,000\text{ cm}^3 - 7200\text{ cm}^3 \times 10 = 108\,000\text{ cm}^3$
 Capacity of A $\rightarrow 108\,000\text{ cm}^3 \times 2 = 216\,000\text{ cm}^3$
 $60\text{cm} \times 60\text{cm} \times 60\text{cm} = 216\,000\text{ cm}^3$
 Length of A \Rightarrow 60 cm

Incorrectly answered feedback

Total volume of water $\rightarrow 50\text{cm} \times 30\text{cm} \times 20\text{cm} + \frac{1}{2} \times 50\text{cm} \times 60\text{cm} \times 100\text{cm}$
 $= 180\,000\text{ cm}^3$
 Volume of water from A $\rightarrow 180\,000\text{ cm}^3 - 7200\text{ cm}^3 \times 10 = 108\,000\text{ cm}^3$
 Capacity of A $\rightarrow 108\,000\text{ cm}^3 \times 2 = 216\,000\text{ cm}^3$
 $60\text{cm} \times 60\text{cm} \times 60\text{cm} = 216\,000\text{ cm}^3$
 Length of A \Rightarrow 60 cm

[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

[Remove From Test](#)

Question 33

Primary 6 Math » Primary 6 Math (Prelim)

1 pt

Find the average of 1.51, 2.02 and 3.4.

Accepted answers:

- ✓ 2.31
- ✓ 2. 31
- ✓ 2 .31
- ✓ 2 . 31

Question Type: Free Text

Date Added: Mon 2nd Aug 2021

Last Modified: N/A

QID#: 28,593,999

[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

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Question 34

Primary 6 Math » Primary 6 Math (Prelim)

1 pt

Express 0.85 as a percentage.

Ans: ____ %

Accepted answers:

- ✓ 85%
- ✓ 85

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,594,000

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Question 35

Primary 6 Math » Primary 6 Math (Prelim)

3 pts

At a stationery fair, Cailin bought 4 more pens than files. Each pen costs \$2 and each file costs \$5. She spent \$28 more on files than pens. How many pens did Cailin buy?

Accepted answers:

✓ 16 pens

✓ 16

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,594,001

Correctly answered feedback

$$4 \text{ pens} \rightarrow 4 \times \$2 = \$8$$

$$\text{If she had not bought 4 more pens, diff} \rightarrow \$28 + \$8 = \$36$$

$$\text{Diff between 1 file and 1 pen} \rightarrow \$5 - \$2 = \$3$$

$$\text{No. of files} \rightarrow \frac{\$36}{\$3} = 12$$

$$\text{No. of pens} \rightarrow 12 + 4 \Rightarrow \underline{16 \text{ pens}}$$

Incorrectly answered feedback

$$4 \text{ pens} \rightarrow 4 \times \$2 = \$8$$

$$\text{If she had not bought 4 more pens, diff} \rightarrow \$28 + \$8 = \$36$$

$$\text{Diff between 1 file and 1 pen} \rightarrow \$5 - \$2 = \$3$$

$$\text{No. of files} \rightarrow \frac{\$36}{\$3} = 12$$

$$\text{No. of pens} \rightarrow 12 + 4 \Rightarrow \underline{16 \text{ pens}}$$

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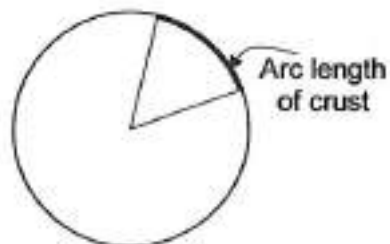
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Question 36

Primary 6 Math » Primary 6 Math (Prelim)

1 pt

A pizza with a radius of 7 cm is shared equally among x people. What is the arc length of the crust each person will get? Express your answer in terms of x . (Take $\pi = \frac{22}{7}$)



Ans: _____ cm

Accepted answers:

- ✓ 44/x cm
- ✓ 44 / x cm
- ✓ 44/xcm
- ✓ 44 / xcm

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,594,002

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Question 37

Primary 6 Math » Primary 6 Math (Prelim)

2 pts

Every time Danny saves \$0.50, his father would add another \$0.20 to his savings. How much did his father put into his savings if Danny had \$14 in his savings?

Accepted answers:

- ✓ \$4
- ✓ 4

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,594,003

[↗ Answers](#) | [✎ Edit](#) | [📄 Duplicate](#) | [📌 Used In](#) | [↕ Reorder](#)

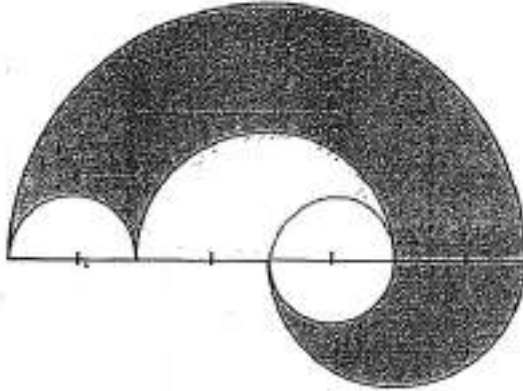
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Question 38

Primary 6 Math » Primary 6 Math (Prelim)

4 pts

The figure below is made up of semi-circles of 3 different radii. The radius of the largest semi-circle is 21cm. Find the area of the shaded figure. Round off your answers to 2 decimal places.



Accepted answers:

- ✓ 606.13 cm square
- ✓ 606.13cm square
- ✓ 606 .13 cm square
- ✓ 606.13
- ✓ 606. 13
- ✓ 606 .13
- ✓ 606 . 13
- ✓ 606. 13 cm Square
- ✓ 606 . 13 cm Square

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,594,004

Correctly answered feedback

$$\text{Radius of small unshaded semi-circle} \rightarrow \frac{21 \text{ cm}}{2} = 8.25 \text{ cm}$$

$$\text{Large semi-circle} \rightarrow \frac{1}{2} \times \pi \times 21 \text{ cm} \times 21 \text{ cm} = 220.5 \pi \text{ cm}^2$$

$$\text{Small circle} \rightarrow \pi \times 5.25 \text{ cm} \times 5.25 \text{ cm} = 27.5625 \pi \text{ cm}^2$$

$$\text{Shaded} \rightarrow 220.5 \pi \text{ cm}^2 - 27.5625 \pi \text{ cm}^2 \approx \underline{606.13 \text{ cm}^2}$$

Incorrectly answered feedback

$$\text{Radius of small unshaded semi-circle} \rightarrow \frac{21 \text{ cm}}{2} = 8.25 \text{ cm}$$

$$\text{Large semi-circle} \rightarrow \frac{1}{2} \times \pi \times 21 \text{ cm} \times 21 \text{ cm} = 220.5 \pi \text{ cm}^2$$

$$\text{Small circle} \rightarrow \pi \times 5.25 \text{ cm} \times 5.25 \text{ cm} = 27.5625 \pi \text{ cm}^2$$

$$\text{Shaded} \rightarrow 220.5 \pi \text{ cm}^2 - 27.5625 \pi \text{ cm}^2 \approx \underline{606.13 \text{ cm}^2}$$

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Question 39

Primary 6 Math » Primary 6 Math (Prelim)

3 pts

A family of 5 was considering where to go for an affordable dinner.

Restaurant A	Restaurant B
10% discount on the 4 th diner Buffet price: \$40 per person -No Service Charge-	10% Service Charge applicable

What is the average cost per person if they dined at Restaurant A?

Accepted answers:

\$39.20

- ✓
- ✓ \$39 . 20
- ✓ \$39. 20
- ✓ \$39 .20
- ✓ \$ 39. 20
- ✓ \$ 39 .20
- ✓ \$ 39 . 20
- ✓ 39.2
- ✓ 39 .20
- ✓ 39. 20
- ✓ 39 . 20

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,594,005

Correctly answered feedback

Total of 5: $\$40 \times 4 + 90/100 \times \$40 = \$196$
 Average: $\$196/5 = \39.20

Incorrectly answered feedback

Total of 5: $\$40 \times 4 + 90/100 \times \$40 = \$196$
 Average: $\$196/5 = \39.20

[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

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Question 40

Primary 6 Math » Primary 6 Math (Prelim)

2 pts

A family of 5 was considering where to go for an affordable dinner.

Restaurant A	Restaurant B
10% discount on the 4 th diner Buffet price: \$40 per person -No Service Charge-	10% Service Charge applicable

What is the maximum amount they should spend at Restaurant B before the service charge, such that their total bill would be at least \$10 less than what they would spend at Restaurant A? (Round off your answer to the nearest dollar.)

Accepted answers:

✓ \$169

✓ 169

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,594,009

Correctly answered feedback

After 10% service charge: $\$196 - \$10 = \$186$
 Before 10% service charge: $\$186/110 \times 100 = \169

Incorrectly answered feedback

After 10% service charge: $\$196 - \$10 = \$186$
 Before 10% service charge: $\$186/110 \times 100 = \169

[↗ Answers](#) | [✎ Edit](#) | [📄 Duplicate](#) | [📌 Used In](#) | [⬇ Reorder](#)

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Question 41

Primary 6 Math » Primary 6 Math (Prelim)

1 pt

Use all the digits 3, 4, 5, 8 to form a number closet to 5000.

Accepted answers:

✓ 4853

✓ 4,853

✓ 4, 853

✓ 4 ,853

✓ 4 , 853

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,594,007

[↗ Answers](#) | [✎ Edit](#) | [📄 Duplicate](#) | [📌 Used In](#) | [⬇ Reorder](#)

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Question 42

Primary 6 Math » Primary 6 Math (Prelim)

2 pts

Min Leng had 2 l of milk. She poured milk into 4 equal glasses and realised that she had $1\frac{2}{5}$ l left. How much milk did she pour into each glass?

Accepted answers:

- ✓ 3/20 l
- ✓ 3/20 litres
- ✓ 3 / 20 litres
- ✓ 3 / 20 l

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,594,008

Correctly answered feedback

$$\frac{3}{20} \ell$$

Incorrectly answered feedback

$$\frac{3}{20} \ell$$

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Question 43

Primary 6 Math » Primary 6 Math (Prelim)

2 pts

4/9 of a number is 32. What is the number?

Accepted answers:

- ✓ 72

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,594,011

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Question 44

Primary 6 Math » Primary 6 Math (Prelim)

2 pts

The perimeter of the rectangle is 6 times its breadth. What is the area of the rectangle if the length is 12 cm?

Accepted answers:

- ✓ 72 cm square
- ✓ 72cm Square

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,594,012

Correctly answered feedback72 cm²**Incorrectly answered feedback**72 cm²

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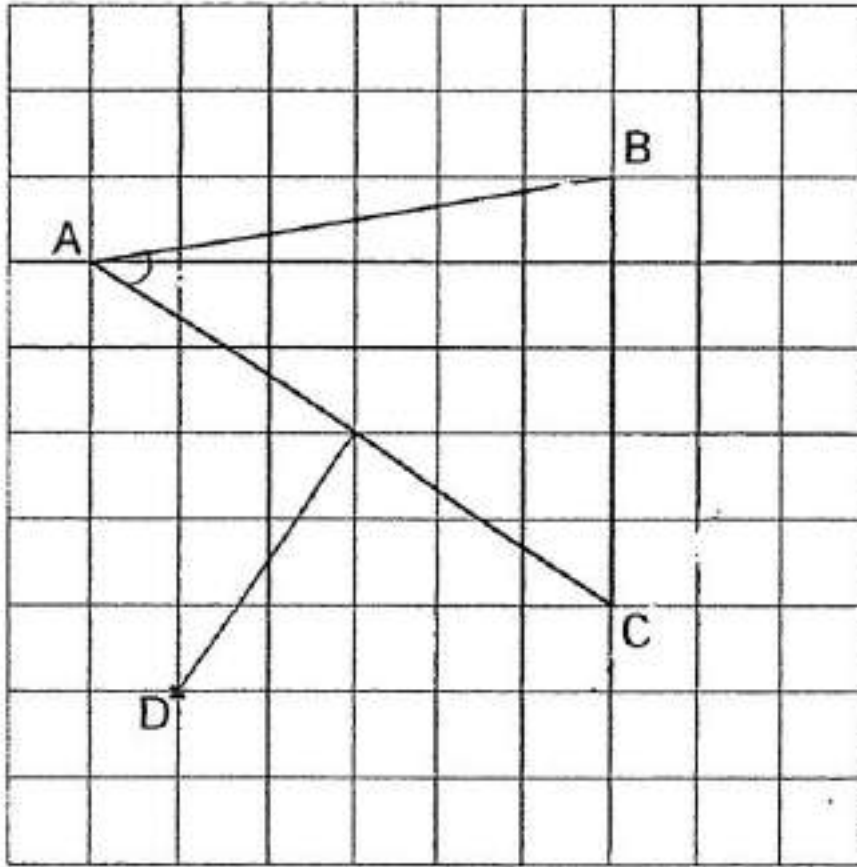
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Question 45

Primary 6 Math » Primary 6 Math (Prelim)

1 pt

Triangle ABC is drawn in the grid below.



Measure Angle ACB.

Accepted answers:

- ✓ 56 degrees
- ✓ 56 degree

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,594,013

Correctly answered feedback

0
56

Incorrectly answered feedback

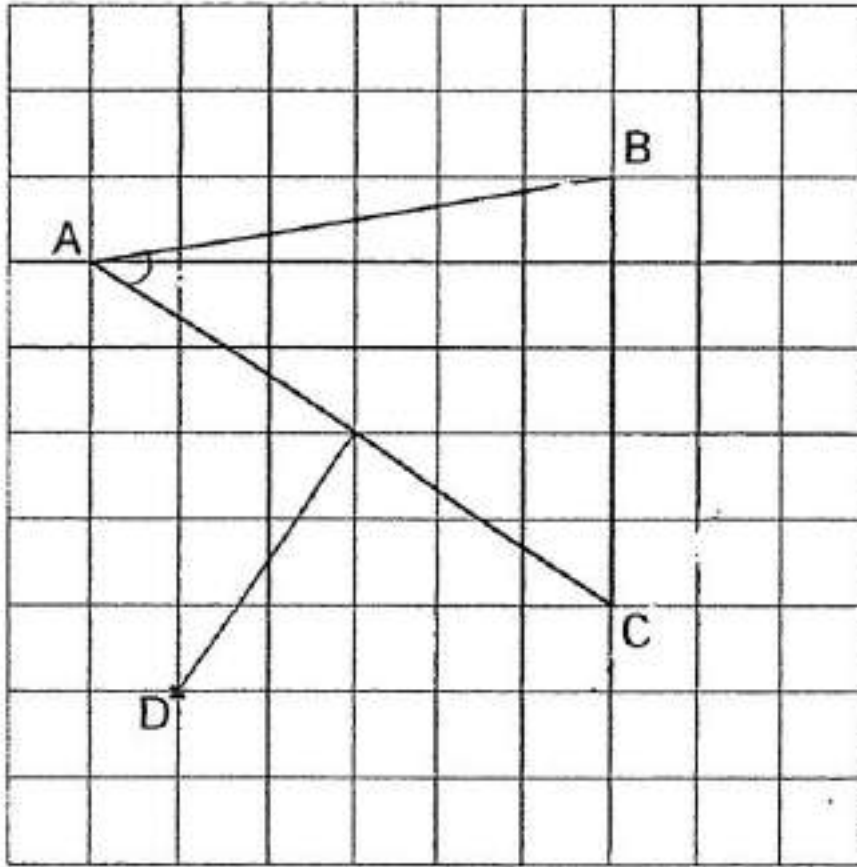
56°

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Question 46

Triangle ABC is drawn in the grid below.



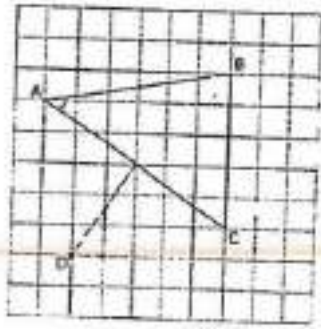
Draw a line perpendicular to line AC that touches point D. (1 mark)

This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

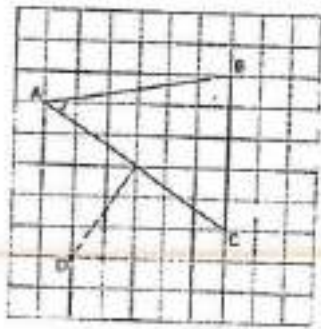
Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question Type: Essay
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,593,982

Correctly answered feedback



Incorrectly answered feedback



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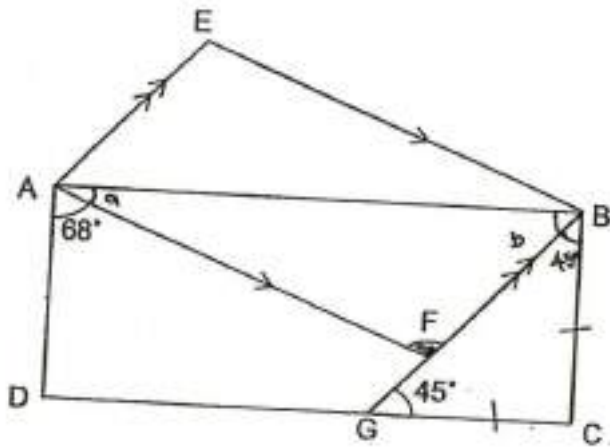
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Question 47

Primary 6 Math » Primary 6 Math (Prelim)

2 pts

The figure below is made up of rectangle ABCD, parallelogram AEBF and isosceles triangle BCG. $\angle DAF$ is 68° and $\angle BGC$ is 45° . Find $\angle AFB$.



Accepted answers:

✓ 113 degrees

✓ 113 degree

✓ 113

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,594,014

Correctly answered feedback

113°

Incorrectly answered feedback

113°

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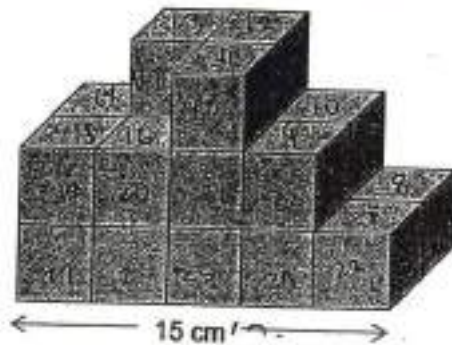
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Question 48

Primary 6 Math » Primary 6 Math (Prelim)

3 pts

The figure below is made up of 21 identical cubes. Philip decided to paint the exposed surface area, including the surface area at the bottom of the figure.



What is the total area that Philip painted?

Accepted answers:

✓ 486 cm square

✓ 486cm square

✓ 486

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,594,015

Correctly answered feedback

Length of 1 cube: $15 \text{ cm} / 5 = 3 \text{ cm}$
 Area of 1 square face: $3 \text{ cm} \times 3 \text{ cm} = 9 \text{ cm}^2$
 Total painted faces: $11 \times 2 + 10 \times 2 + 6 \times 2 = 54$
 Total painted area: $54 \times 9 \text{ cm}^2 = 486 \text{ cm}^2$

Incorrectly answered feedback

Length of 1 cube: $15 \text{ cm} / 5 = 3 \text{ cm}$
 Area of 1 square face: $3 \text{ cm} \times 3 \text{ cm} = 9 \text{ cm}^2$
 Total painted faces: $11 \times 2 + 10 \times 2 + 6 \times 2 = 54$
 Total painted area: $54 \times 9 \text{ cm}^2 = 486 \text{ cm}^2$

[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

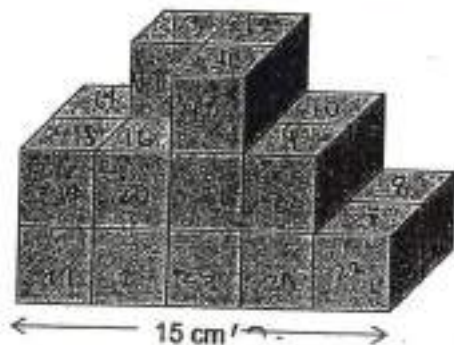
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Question 49

Primary 6 Math » Primary 6 Math (Prelim)

2 pts

The figure below is made up of 21 identical cubes. Philip decided to paint the exposed surface area, including the surface area at the bottom of the figure.



Find the number of surfaces that are not painted.

Accepted answers:

- ✓ 72
- ✓ 72 surfaces

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,594,017

Correctly answered feedback

Total faces of 21 cubes: $21 \times 6 = 126$
 Not painted: $126 - 54 = 72$

Incorrectly answered feedback

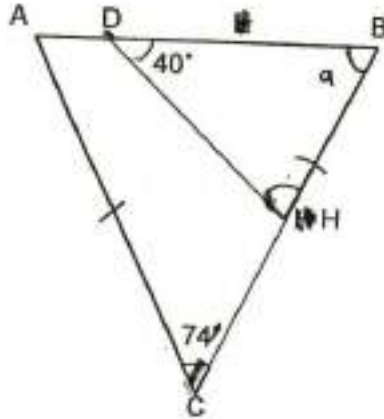
Total faces of 21 cubes: $21 \times 6 = 126$
 Not painted: $126 - 54 = 72$

Question 50

Primary 6 Math » Primary 6 Math (Prelim)

2 pts

In the figure below, ABC is an isosceles triangle where AC is equal to BC. \angle ACB is 74° and \angle EDF is 40° . Find \angle DHC.



Accepted answers:

- ✓ 93 degrees
- ✓ 93 degree

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,594,016

Correctly answered feedback

$$\begin{aligned} \angle a &\rightarrow (180^\circ - 74^\circ) \div 2 = 53^\circ \\ \angle b &\rightarrow 180^\circ - 53^\circ - 40^\circ = 87^\circ \\ \angle DHC &\rightarrow 180^\circ - 87^\circ \Rightarrow \underline{93^\circ} \end{aligned}$$

Incorrectly answered feedback

$$\begin{aligned} \angle a &\rightarrow (180^\circ - 74^\circ) \div 2 = 53^\circ \\ \angle b &\rightarrow 180^\circ - 53^\circ - 40^\circ = 87^\circ \\ \angle DHC &\rightarrow 180^\circ - 87^\circ \Rightarrow \underline{93^\circ} \end{aligned}$$

[Answers](#) |
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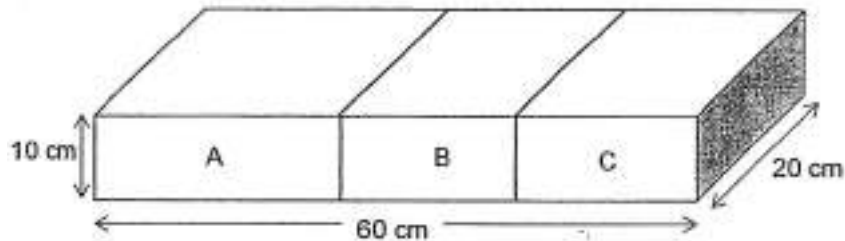
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Question 51

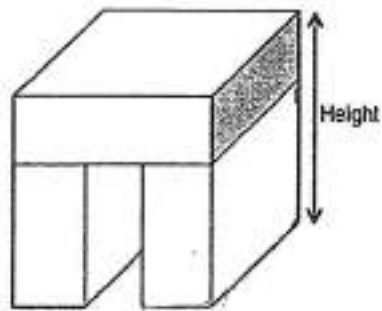
Primary 6 Math » Primary 6 Math (Prelim)

2 pts

Mr Ali wanted to make a stool from a block of wood, 10 cm by 60 cm by 20 cm, as shown below. He cuts the wood into 3 parts, A, B and C in the ratio of 4 : 3 : 3.



He then nails the 2 smaller pieces to part A as shown below.



Find the height of the stool.

Accepted answers:

- ✓ 28 cm
- ✓ 28cm
- ✓ 28

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,594,010

Correctly answered feedback

10 units: 60 cm
 3 units: $60\text{cm}/10 \times 3 = 18\text{ cm}$
 Height: $10\text{ cm} + 18\text{ cm} = 28\text{ cm}$

Incorrectly answered feedback

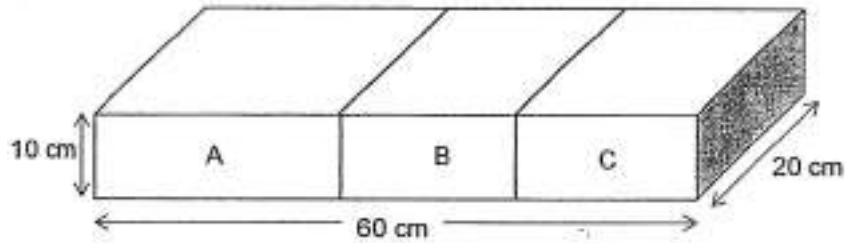
10 units: 60 cm
 3 units: $60\text{cm}/10 \times 3 = 18\text{ cm}$
 Height: $10\text{ cm} + 18\text{ cm} = 28\text{ cm}$

Question 52

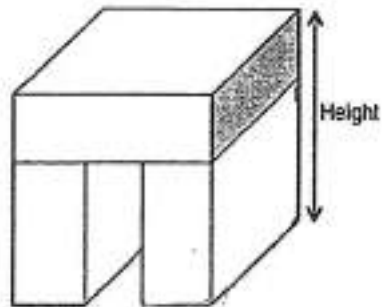
Primary 6 Math » Primary 6 Math (Prelim)

1 pt

Mr Ali wanted to make a stool from a block of wood, 10 cm by 60 cm by 20 cm, as shown below. He cuts the wood into 3 parts, A, B and C in the ratio of 4 : 3 : 3.



He then nails the 2 smaller pieces to part A as shown below.



What is the lowest possible height if he were to stack 5 such stools, one on top of another?

Accepted answers:

- ✓ 100 cm
- ✓ 100cm
- ✓ 100

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,594,018

Correctly answered feedback

Lowest: $20 \text{ cm} \times 5 = 100 \text{ cm}$

Incorrectly answered feedback

Lowest: $20 \text{ cm} \times 5 = 100 \text{ cm}$

Question 53

Primary 6 Math » Primary 6 Math (Prelim)

2 pts

There are 16 boys and 25 girls in the class. 25% of the boys and 40% of the girls wore spectacles. How many students wore spectacles?

Accepted answers:

- ✓ 14 students
- ✓ 14

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,594,019

Correctly answered feedback

Boys with spec: $16/4 = 4$
 Girls with spec: $25/10 \times 4 = 10$
 Total: $10 + 4 = 14$ students

Incorrectly answered feedback

Boys with spec: $16/4 = 4$
 Girls with spec: $25/10 \times 4 = 10$
 Total: $10 + 4 = 14$ students

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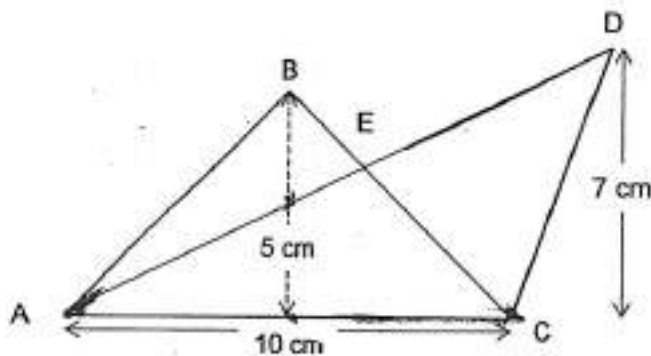
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Question 54

Primary 6 Math » Primary 6 Math (Prelim)

3 pts

The figure below shows 2 overlapping triangles, ABC and ACD. Find the area of the figure given that the area of Triangle AEC is 15 cm^2 .



Accepted answers:

- ✓ 45 cm square
- ✓ 45cm square

Question Type: Free Text
Date Added: Mon 2nd Aug 2021
Last Modified: N/A
QID#: 28,594,020

Correctly answered feedback

$$\left(\frac{1}{2} \times 10\text{cm} \times 5\text{cm}\right) + \left(\frac{1}{2} \times 10\text{cm} \times 7\text{cm}\right) = 60 \text{ cm}^2$$

$$60\text{cm}^2 - 15\text{cm}^2 \Rightarrow \underline{45 \text{ cm}^2}$$

Incorrectly answered feedback

$$\left(\frac{1}{2} \times 10\text{cm} \times 5\text{cm}\right) + \left(\frac{1}{2} \times 10\text{cm} \times 7\text{cm}\right) = 60 \text{ cm}^2$$

$$60\text{cm}^2 - 15\text{cm}^2 \Rightarrow \underline{45 \text{ cm}^2}$$

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