

# METHODIST GIRLS' SCHOOL

Founded in 1887



## PRIMARY 5 MID-YEAR EXAMINATION 2012 MATHEMATICS

### PAPER 1 (BOOKLET A)

Total Time for Booklets A and B: 50 minutes

#### INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Shade your answers in the Optical Answer Sheet (OAS)

Provided.

The use of calculators is NOT allowed.

Name: \_\_\_\_\_ ( )

Class: Primary 5. \_\_\_\_\_

Date: 9 May 2012

This booklet consists of 7 printed pages including this page.

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

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1. What is the missing sign in the box below?

$$220 - (18 + 6) \square 3 = 212 \text{ ;}$$

- (1) +
- (2) -
- (3) x
- (4) ÷

2. How many whole numbers from 9 to 104 are divisible by 5?

- (1) 19
- (2) 18
- (3) 17
- (4) 16

3. There are 85 red beads and 35 blue beads in a box. What fraction of the beads in the box are red?

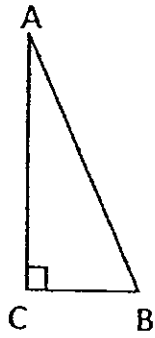
- (1)  $\frac{7}{17}$
- (2)  $\frac{7}{24}$
- (3)  $\frac{10}{17}$
- (4)  $\frac{17}{24}$

4. What is the missing fraction in the box?

$$9.256 = 9 + \boxed{\phantom{00}} + 0.006$$

- (1)  $\frac{1}{5}$
- (2)  $\frac{1}{2}$
- (3)  $\frac{1}{3}$
- (4)  $\frac{1}{4}$
5.  $\frac{4}{5}$  of the pupils in the Primary 5 level went on a field trip to Sungei Buloh. 40 pupils did not go. How many pupils went on the trip?
- (1) 32
- (2) 50
- (3) 160
- (4) 200

6. Triangle ABC has a perimeter of 30 cm.  $AB = 13$  cm and  $CB = 5$  cm. What is the area of the figure?



- (1)  $30 \text{ cm}^2$   
(2)  $32.5 \text{ cm}^2$   
(3)  $60 \text{ cm}^2$   
(4)  $65 \text{ cm}^2$
7. Anita, Beth and Cathy shared 84 sweets in the ratio 4 : 5 : 3. How many more sweets did Beth get than Cathy?
- (1) 7  
(2) 14  
(3) 21  
(4) 35
8. Subtract 15 tenths from 17.34.
- (1) 2.34  
(2) 15.84  
(3) 17.19  
(4) 17.335

9. Danielle wakes up at 6.10 a.m. for school. She takes  $\frac{1}{3}$  h for breakfast, 10 min to get dressed and 22 min for the journey to school. At what time does she reach school?

- (1) 6.57 a.m.
- (2) 7.02 a.m.
- (3) 7.07 a.m.
- (4) 7.12 a.m.

10. A strip of paper measuring 2.9 m was cut into 3 equal pieces. Round off the length of each piece to 2 decimal places.

- (1) 0.90 m
- (2) 0.96 m
- (3) 0.97 m
- (4) 1.00 m

11.  $25 \times 21 = 525$ .

Find the value of  $52\ 500 \div 105$ .

- (1) 500
- (2) 250
- (3) 210
- (4) 50

12. A box contained 45 red and yellow beads.  $\frac{1}{3}$  of the beads are red and the rest are yellow. When 10 yellow beads were added, what fraction of the beads in the box are yellow?

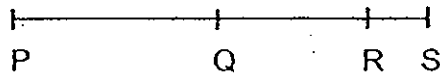
(1)  $\frac{2}{9}$

(2)  $\frac{8}{9}$

(3)  $\frac{5}{11}$

(4)  $\frac{8}{11}$

13. PQRS are four points on a straight line. RS is 3 cm long. PQ is half the length of PS, and PR and RS are in the ratio of 6:1. Find the length of QR.



- (1) 6.0 cm
- (2) 7.5 cm
- (3) 9.0 cm
- (4) 15.0 cm
14. Carolyn's suitcase weighs 11.3 kg. Mandy's suitcase is 1 850 g heavier than Carolyn's. What is the weight of Mandy's suitcase?
- (1) 2.98 kg
- (2) 7.20 kg
- (3) 9.45 kg
- (4) 13.15 kg

15. Estella is 0.18 m taller than Farah. Jenny is 25 cm shorter than Estella. How much taller is Farah than Jenny?

- (1) 7 cm
- (2) 43 cm
- (3) 1.55 cm
- (4) 23.2 cm

# METHODIST GIRLS' SCHOOL

Founded in 1887



## PRIMARY 5 MID-YEAR EXAMINATION 2012 MATHEMATICS

### PAPER 1 (BOOKLET B)

Total Time for Booklets A and B: 50 minutes

#### INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

The use of calculators is **NOT** allowed.

Name: \_\_\_\_\_ ( )

Class: Primary 5. \_\_\_\_\_

Date: 9 May 2012

Paper 1 Booklet A	/ 20
Paper 1 Booklet B	/ 20
Paper 2	/ 60
<b>TOTAL</b>	<b>/ 100</b>

This booklet consists of 8 printed pages including this page.



Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

16. A total of \$10 897 950 was raised at a Charity Ball. Round off this number to the nearest thousand dollars.

Ans: \$ \_\_\_\_\_

17. What is the digit in the ones place in  $26 \times 25 \times 3$ ?

Ans: \_\_\_\_\_

18. Express 35 cm as a fraction of 2 m.

Ans: \_\_\_\_\_

Score

19. A ball of string was  $4\frac{4}{5}$  m long. Jen used  $\frac{2}{3}$  of it. What was the length of the string left? Express your answer as a mixed number.

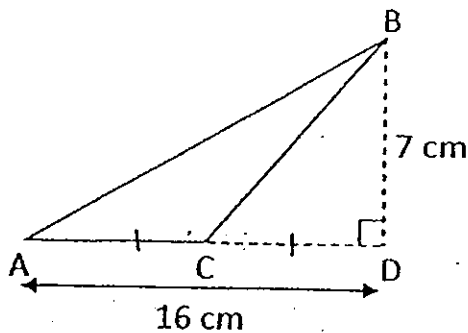
Ans: \_\_\_\_\_ m

20. What is the missing number in the box?

$$7\frac{3}{4} = \square \times \frac{1}{8}$$

Ans: \_\_\_\_\_

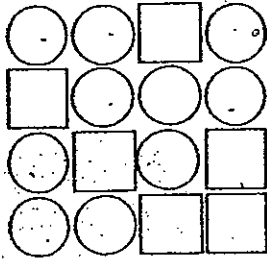
21. In the figure below, ACD is a straight line and  $AC = CD$ . What is the area of triangle ABC?



Ans: \_\_\_\_\_  $\text{cm}^2$

Score

22. What is the ratio of the number of circles to the number of squares?



Ans: \_\_\_\_\_

23. Arrange the following decimal numbers in descending order

4.036, 3.46, 4.063, 3.604

Ans: \_\_\_\_\_

24. Lily had a ribbon measuring 2.84 m. She used 30 cm to make a bow. How many bows can she make?

Ans: \_\_\_\_\_

Score

Do not write  
in this space

25. Samuel gets \$5 of pocket money each day. He spends  $\frac{7}{10}$  of it and saves the rest. How much does he save in a week?

Ans: \$ \_\_\_\_\_

Score

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

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26. The product of two numbers is 90. Their difference is 9. What is the bigger number?

Ans: \_\_\_\_\_

27. A school hired buses to ferry 580 pupils to watch the NE Show. A bus could take up to 50 pupils. Half of the number of buses that went on the first trip made a return trip to school to ferry the remaining pupils. What was the least number of buses needed?

Ans: \_\_\_\_\_

Score

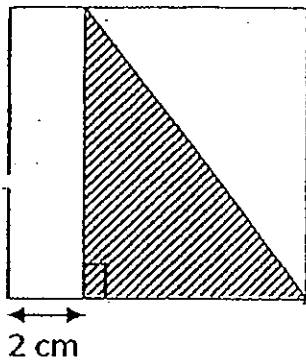
Do not write  
in this space

28. What is the missing number in the box?

$$\frac{42 - \boxed{\phantom{000}}}{9} = 3$$

Ans: \_\_\_\_\_

29. Jamie cut out a triangle from a piece of square paper of side 8 cm.  
What is the area of the remaining piece of paper?



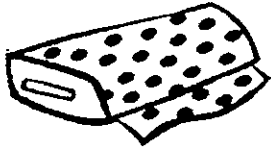
Ans: \_\_\_\_\_ cm<sup>2</sup>

Score

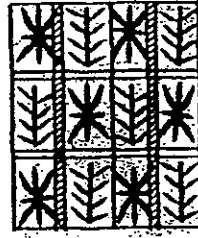
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in this space

30.

Mrs Tan wanted to buy some material to make tablecloths.  
The prices of two types of materials are as shown below.



Material A  
\$6.00 per metre



Material B  
\$8.00 per metre

She bought 3 m of Material A and used the rest of her money to buy  
Material B. She paid \$50 for her purchases. How many metres of  
material did she buy altogether?

Ans: \_\_\_\_\_ m

Score

End of Paper

# METHODIST GIRLS' SCHOOL

Founded in 1887



## PRIMARY 5 MID-YEAR EXAMINATION 2012 MATHEMATICS

### PAPER 2

Total Time: 1 h 40 min.

#### INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

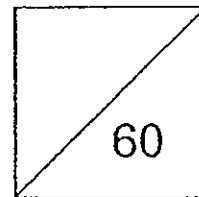
Write your answers in this booklet.

The use of an approved calculator is expected, where appropriate.

Name: \_\_\_\_\_ ( )

Class: Primary 5. \_\_\_\_\_

Date: 9 May 2012



This booklet consists of 15 printed pages including this page.



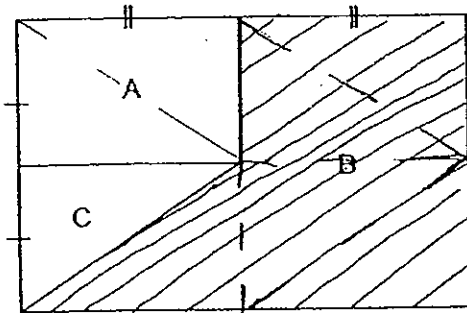
Do not write  
in this space

Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

1. Store A sells apples at 65¢ each and Stall B sells them at 5 for \$3.05. How much will Mrs Chan save if she buys 20 apples from Stall B?

Ans: \$ \_\_\_\_\_

2. A plot of land is divided into 3 smaller plots as shown below: What fraction of the land is Plot B?

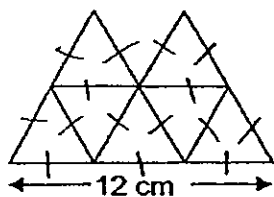


Ans: \_\_\_\_\_

Score

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3. The figure is made of up 7 equilateral triangles.  
What is the perimeter of the figure?



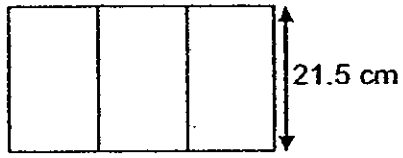
Ans: \_\_\_\_\_ cm

4. John took part in a 20-km triathlon. He ran 10.5 km, swam 850 m and cycled the rest of the journey. What was the distance he cycled?

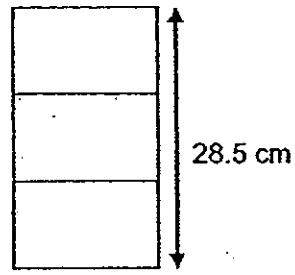
Ans: \_\_\_\_\_ m

Score

5. Three identical boxes can be arranged in 2 ways as shown below.

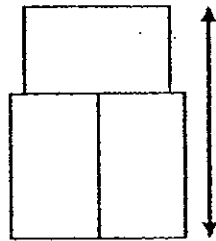


Arrangement A



Arrangement B

What is the height of the boxes in this arrangement?



Ans: \_\_\_\_\_ cm

Do not write  
in this space

Score

For questions 6 to 18, show your working clearly 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. (50 marks)

6. Eugenia is 12 years old now. In 7 years' time, her mother will be 3 times as old as her. How old was her mother when she was born?

Ans: \_\_\_\_\_ [3]

7. There were 76 pupils in two classes. Class B has 12 pupils fewer than Class A.  $\frac{1}{4}$  of the pupils in Class A and  $\frac{3}{8}$  of the pupils in Class B wear spectacles. How many pupils do not wear spectacles?

Ans: \_\_\_\_\_ [3]

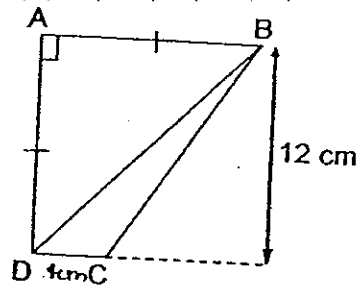
Score

Do not write  
in this space

8. A grocer sold  $\frac{2}{3}$  of the eggs in the morning and  $\frac{1}{5}$  of the eggs in the afternoon. He had 28 eggs left. If there were 10 eggs in each carton, how many cartons of eggs did he have at first?

Ans: \_\_\_\_\_ [3]

9. In the figure below,  $AB = AD$  and  $DC$  is one-third the length of  $AB$ . Find the area of  $ABCD$ .



Ans: \_\_\_\_\_ [3]

Score

Do not write  
in this space

10. A basket contained apples and oranges.  $\frac{1}{4}$  of the fruits were apples.

When 30 apples were added to the basket, the ratio of the number of apples to the total number of fruits became 3 : 8. Find the total number of fruits at the end.

Ans: \_\_\_\_\_ [3]

Score

11. There were some orange beads and 28 red beads and green beads in a container. There were two more green beads than red beads, and 6 fewer orange beads than red. How many beads were there altogether?

Do not write  
in this space

Ans: \_\_\_\_\_ [4]

Score

Do not write  
in this space

12.

Jane saves \$3.80 each week. She puts all her savings in a piggy bank. After some weeks, she counted the money and found that she had twice as many 20¢ coins as 50¢ coins. The rest of the coins were one-dollar coins.

- (a) How long did she take to save \$57?
- (b) How many one-dollar coins were there in the piggy bank?

Ans: (a) \_\_\_\_\_ [1]

(b) \_\_\_\_\_ [3]

Score



Do not write  
in this space

13. Mrs Tan baked 28 trays of cookies. There were 24 cookies in each tray.  
She packed  $\frac{2}{3}$  of the cookies into tins. Each tin can hold 32 cookies.  
The price of each tin was \$18.90.

- (a) How many tins of cookies were there?  
(b) How much did Mrs Tan collect from the sale when she had 5 tins left  
on the shelf? Round off your answer to the nearest dollar.

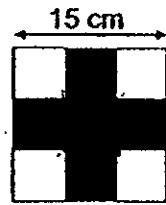
Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [2]

Score

Do not write  
in this space

14. A wall measuring 6 m by 3 m is covered completely with tiles. Each tile measures 15 cm by 15 cm and has a pattern made up of coloured squares as shown below.



- (a) What fraction of the wall is covered with coloured squares?  
(b) How many tiles are there on the wall?

Ans: (a) \_\_\_\_\_ [1]

(b) \_\_\_\_\_ [3]

Score

15. Tank A contains 4 times as much water as Tank B. Emily added 1.34  $\ell$  of water to Tank A and 2.6  $\ell$  of water to Tank B. The two tanks now have the same amount of water. Find the total amount of water in the two tanks now. Give your answer in  $\ell$  and  $m\ell$ .

Do not write  
in this space

Ans: \_\_\_\_\_ [4]

Score

Do not write  
in this space

16. Jar Y has 22 more sweets than Jar Z and Jar Z has 16 more sweets than Jar X. The total number of sweets in Jars Y and Z is 5 times the number of sweets in Jar X.

- (a) How many sweets are there altogether?
- (b) How many sweets should be transferred from Jar Y to the other two jars so that there is an equal number of sweets in all three jars?

Ans: (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [2]

Score

Do not write  
in this space

17. A florist had some pink, red and yellow roses in her shop. One-third of the roses were pink. Of the remaining roses,  $\frac{3}{5}$  were red and the rest were yellow. There were 14 more red than yellow roses.

- (a) How many roses were there altogether?
- (b) She sold a dozen red roses in the morning. What fraction of the remaining roses were red? Express your answer in its simplest form.

Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [3]

Score

Do not write  
in this space

18. Joyce had 112 sweets. Joyce gave away 16 sweets and the ratio of the number of sweets she had to Kara's is 3:2.
- (a) How many sweets did Kara have at first?
- (b) If Joyce had given the 16 sweets to Kara instead, what is the ratio of the number of sweets she had to the number of sweets that Kara had in the end?

Ans: (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [2]

Score

End of Paper

Methodist Girls' School  
Semestral Assessment 1 - 2012  
Answer Key for P5 Mathematics  
Paper 1

1)	4	6)	1	11)	1
2)	1	7)	2	12)	4
3)	4	8)	2	13)	2
4)	4	9)	2	14)	4
5)	3	10)	3	15)	1

16. 10898000

17. 0

18.  $\frac{7}{40}$

19.  $1\frac{3}{5}$

20. 62

21. 28

22. 5 : 3

23. 4.063, 4.036, 3.604, 3.46

24. 9

25. 10.50

26. (Guess method)

$6 \times \underline{15} = 90$

27.  $580 \div 50 = 12$

$12 \div 3 = 4$

$4 \times 2 = \underline{8}$

28.  $3 \times 9 = 27$

$42 - 27 = \underline{15}$

29.  $8 - 2 = 6$

$\frac{1}{2} \times 6 \times 8 = 24$

$8 \times 8 = 64$

$64 - 24 = \underline{40}$

30.  $\$6 = 600c$

$600c \times 3 = 1800c$

$= \$18$

$\$50 - \$18 = \$32$

$\$32 \div \$8 = 4$

$$4 \times 1 = 4$$

$$4 + 3 = \underline{7}$$

## Paper 2

1.  $20 \div 5 = 4$

$$\$3.05 \times 4 = \$12.20$$

$$65\text{¢} \times 20 = 1300\text{¢} = \$13$$

$$\$13 - \$12.20 = \underline{\$0.80}$$

2. Total land  $\rightarrow \frac{8}{8}$

$$\text{Plot B} \rightarrow \frac{5}{8}$$

3.  $12 \div 3 = 4$

$$4 \times 9 = \underline{36 \text{ cm}}$$

4.  $20 \text{ km} = 20000 \text{ m}$

$$10.5 \text{ km} = 10500 \text{ m}$$

$$10500 \text{ m} + 850 \text{ m} = 11350 \text{ m}$$

$$20000 \text{ m} - 11350 \text{ m} = \underline{8650 \text{ m}}$$

5.  $28.5 \div 3 = 9.5$

$$21.5 + 9.5 = \underline{31 \text{ cm}}$$

6.  $12 + 7 = 19$

$$19 \times 3 = 57$$

$$57 - 7 = 50$$

$$50 - 12 = \underline{38 \text{ years old}}$$

7.  $76 - 12 = 64$

$$64 \div 2 = 32$$

$$32 \div 8 = 4$$

$$1 - \frac{3}{8} = \frac{5}{8}$$

$$4 \times 5 = 20$$

$$32 + 12 = 44$$

$$44 \div 4 = 11$$

$$1 - \frac{1}{4} = \frac{3}{4}$$

$$11 \times 3 = 33$$

$$20 + 33 = \underline{53 \text{ pupils}}$$

8.  $\frac{2}{3} = \frac{10}{15}$

$$\frac{1}{5} = \frac{3}{15}$$

$$1 - \frac{10}{15} - \frac{3}{15} = \frac{2}{15}$$

$$28 \div 2 = 14$$

$$14 \times 15 = 210$$

$$210 \div 10 = \underline{21 \text{ cartons of eggs}}$$

9.  $12 \div 3 = 4$

$$\frac{1}{2} \times 4 \times 12 = 24$$

$$\frac{1}{2} \times 12 \times 12 = 72$$

$$72 + 24 = \underline{96 \text{ cm}^2}$$



10. A : O

$$1 : 3 \rightarrow 5 : 15$$

$$3 : 5 \rightarrow 9 : 15$$

$$9 - 5 = 4$$

$$30 \div 4 = 7.5$$

$$9 + 15 = 24$$

$$24 \times 7.5 = \underline{180 \text{ fruits}}$$

11.  $28 - 2 = 26$

$$26 \div 2 = 13$$

$$13 - 6 = 7$$

$$7 + 13 + (13 + 2) = \underline{35 \text{ beads}}$$

12. (a)  $\$57 \div \$3.80 = \underline{15 \text{ weeks}}$

(b)  $2 \times \$0.20 = \$0.40$

$$1 \times \$0.50 = \$0.50$$

$$4 \times \$0.20 = \$0.80$$

$$2 \times \$0.50 = \$1$$

$$2 \times \$1 = \$2$$

$$\$0.80 + \$1 + \$2 = \$3.80$$

$$2 \times 15 = \underline{30}$$

13. (a)  $28 \times 24 = 672$

$$672 \div 3 = 224$$

$$224 \times 2 = 448$$

$$448 \div 32 = \underline{14 \text{ tins}}$$

(b)  $14 - 5 = 9$

$$9 \times \$18.90 = \$170.10 \approx \$170$$

14. (a) Coloured parts  $\rightarrow \frac{5}{9}$

So when the whole wall was covered with tiles, the fraction is still the same.

(b)  $600 \text{ cm} \div 15 \text{ cm} = 40$

$$300 \text{ cm} \div 15 \text{ cm} = 20$$

$$40 \times 20 = \underline{800 \text{ tiles}}$$

15.  $2.6 - 1.34 = 1.26$

$$1.26 \div 3 = 0.42$$

$$0.42 \times 4 = 1.68$$

$$1.68 + 1.34 = 3.02$$

$$3.02 \times 2 = \underline{6\text{L } 40\text{ml}}$$

16. (a)  $16 \times 2 = 32$

$$32 + 22 = 54$$

$$54 \div 3 = 18$$

$$18 \times 6 = \underline{108 \text{ sweets}}$$

(b)  $38 - 16 = 22$

$$18 + 16 = 34$$

$$18 + 22 = 40$$

$$40 - 34 = 6$$

$$6 \div 3 = 2$$

$$2 \times 2 = 4$$

$$4 + 16 = \underline{20 \text{ sweets}}$$

17. (a)  $6 - 4 = 2$

$$14 \div 2 = 7$$

$$7 \times 15 = \underline{105 \text{ roses}}$$

(b)  $7 \times 6 = 42$

$$42 - 12 = 30$$

$$105 - 12 = 93$$

$$\frac{30}{93} = \frac{10}{31}$$

18. (a)  $112 - 16 = 96$

$$96 \div 3 = 32$$

$$32 \times 2 = \underline{64 \text{ sweets}}$$

(b)  $64 + 16 = 80$

$$J : K$$

$$96 : 80$$

$$\underline{6 : 5}$$

# METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887



## END-OF-YEAR EXAMINATION 2012 PRIMARY 5 MATHEMATICS

### PAPER 1 (BOOKLET A)

Total Time for Booklets A and B: 50 minutes

#### INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Shade your answers in the Optical Answer Sheet (OAS) provided.

The use of calculators is **NOT** allowed.

Name: \_\_\_\_\_ ( )

Class: Primary 5. \_\_\_\_\_

Date: 9 October 2012

This booklet consists of 8 printed pages including this page.

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.  
For each question, four options are given. One of them is the correct answer.  
Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical  
Answer Sheet. (20 marks)

---

1. What is the value of  $120 \div 3 \times (9 - 5) + 7$ ?
  - (1) 17
  - (2) 167
  - (3) 362
  - (4) 440
  
2. Which of the following can be divided by 6 with no remainder?
  - (1) 1 450
  - (2) 2 033
  - (3) 3 205
  - (4) 4 218
  
3. Eva saved a fixed amount of money each day for 8 days. After she had used \$12 of her savings to buy a book, she had \$4 left. How much money did she save each day?
  - (1) \$1.50
  - (2) \$2.00
  - (3) \$1.00
  - (4) \$0.50

4.  $\frac{1}{2} + \square \times \frac{1}{6} = 1\frac{1}{6}$

What is the missing number in the box?

- (1) 1
- (2) 2
- (3) 3
- (4) 4

5. Longans are sold at \$3 per kg. Mary bought  $5\frac{1}{4}$  kg of longans.

How much did she pay for the longans?

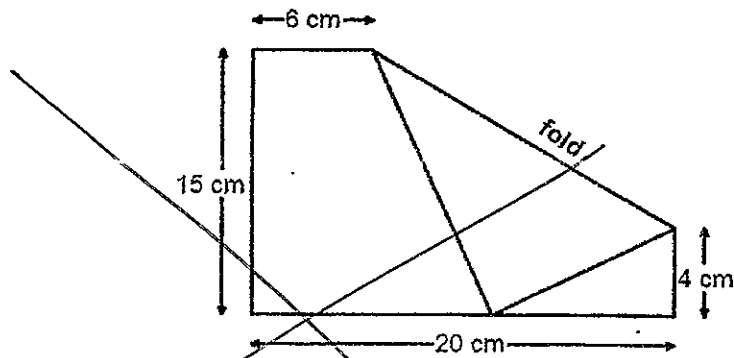
- (1) \$8.25
- (2) \$15.25
- (3) \$15.50
- (4) \$15.75

6.  $201.2 = 2 \times 100 + \frac{120}{\square}$

What is the missing number in the box?

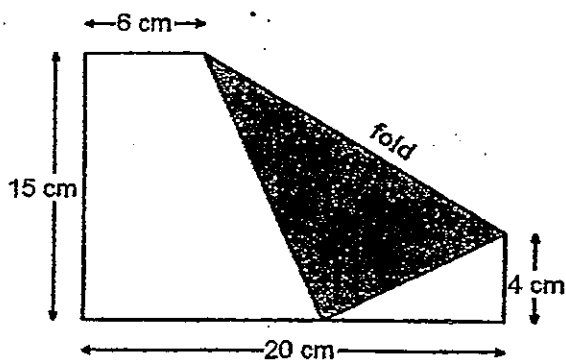
- (1) 10
- (2) 100
- (3) 1 000
- (4) 10 000

7. A rectangular piece of paper is folded as shown in the figure. Find the area of the shaded part.



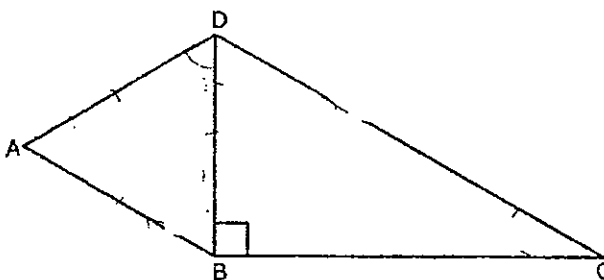
- (1)  $30 \text{ cm}^2$
- (2)  $77 \text{ cm}^2$
- (3)  $154 \text{ cm}^2$
- (4)  $223 \text{ cm}^2$

7. A rectangular piece of paper is folded as shown in the figure. Find the area of the shaded part.

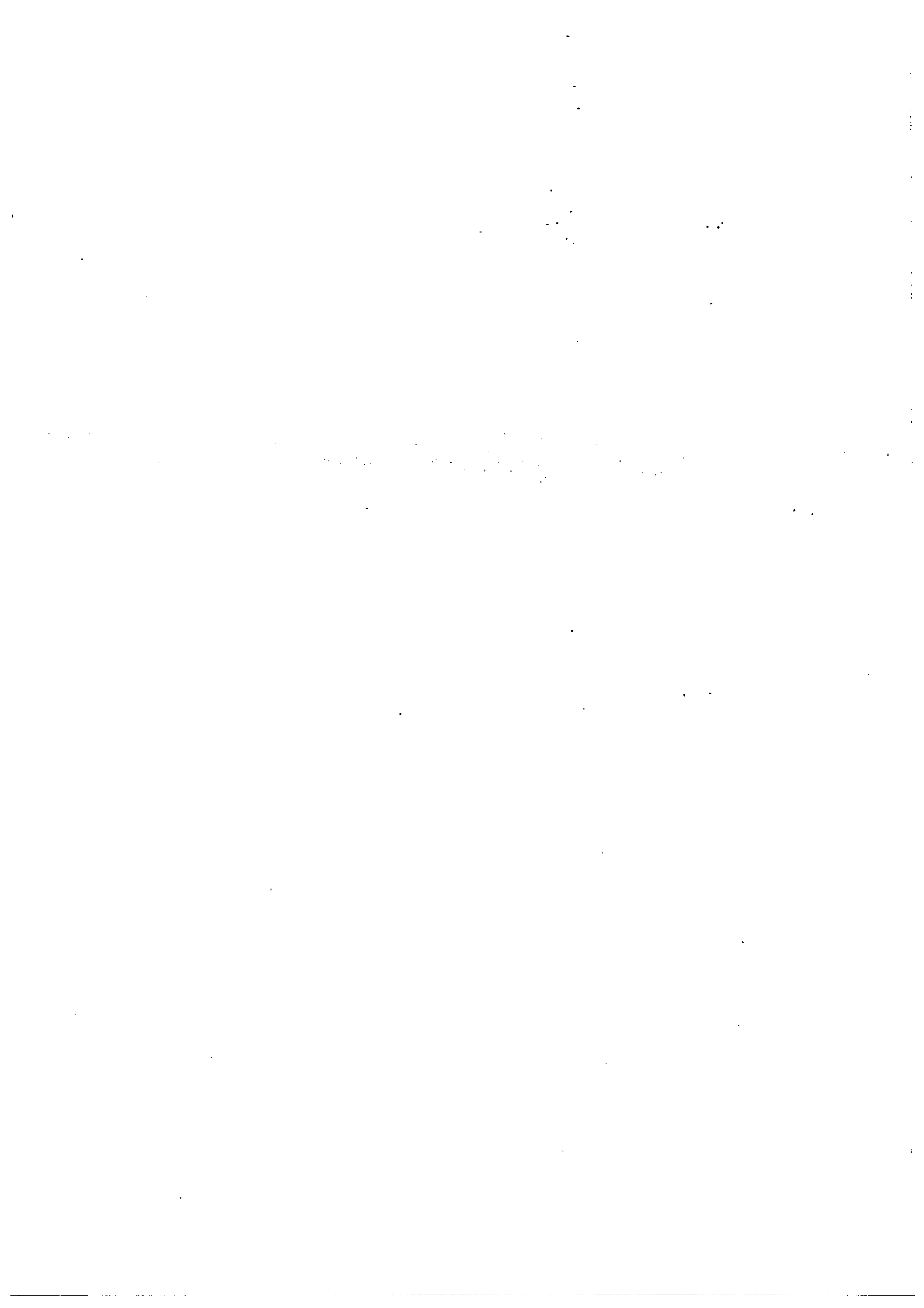


- (1)  $30 \text{ cm}^2$
- (2)  $77 \text{ cm}^2$
- (3)  $154 \text{ cm}^2$
- (4)  $223 \text{ cm}^2$

8. In the figure shown, ABD is an equilateral triangle and  $AB \parallel DC$ . Find  $\angle BCD$ .

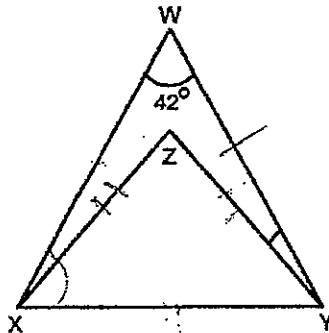


- (1)  $30^\circ$
- (2)  $45^\circ$
- (3)  $60^\circ$
- (4)  $75^\circ$



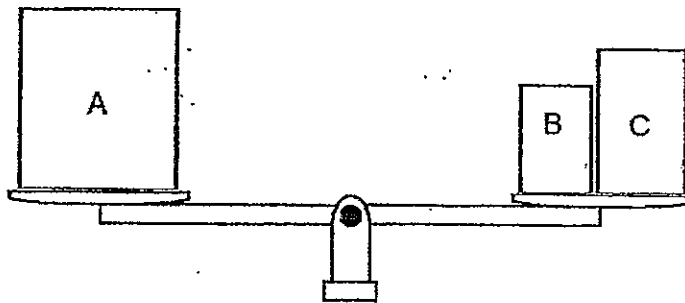


9. In the figure,  $XWY$  is an isosceles triangle,  $XZY$  is an equilateral triangle and  $\angle XWY = 42^\circ$ . Find  $\angle ZYW$ .



- (1)  $9^\circ$   
 (2)  $18^\circ$   
 (3)  $21^\circ$   
 (4)  $69^\circ$
10. John is 1.57 m tall. Jane is 9 cm shorter than John. Mark is 0.15 m taller than Jane. What is Mark's height?
- (1) 148 cm  
 (2) 163 cm  
 (3) 172 cm  
 (4) 181 cm

11. The figure below shows 3 parcels on a balance scale.



The mass of Parcel C is 4 kg. It is twice the mass of Parcel B.  
What is the average mass of the 3 parcels?

- (1) 8 kg  
(2) 2 kg  
(3) 6 kg  
(4) 4 kg
12. Mary baked a cake. She gave  $\frac{1}{3}$  of it to Mrs Lim and  $\frac{1}{3}$  of the remainder to Mrs Tan. What fraction of the cake did she keep for herself?
- (1)  $\frac{1}{2}$   
(2)  $\frac{1}{3}$   
(3)  $\frac{2}{9}$   
(4)  $\frac{4}{9}$

13. The number of marbles Raju has is  $\frac{1}{4}$  of Ali's marbles and  $\frac{3}{7}$  of Lincoln's marbles. What is the ratio of the number of marbles Raju has to the number of marbles Lincoln has to the number of marbles Ali has?

- (1) 3 : 12 : 7
- (2) 3 : 7 : 12
- (3) 7 : 3 : 12
- (4) 12 : 7 : 3

14. Twenty out of a class of 35 pupils are girls. In March, 3 girls and 2 boys joined the class. What percentage of the class are girls now?

- (1) 15%
- (2) 50%
- (3) 57.5%
- (4) 87.5%



# METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887



## END-OF-YEAR EXAMINATION 2012 PRIMARY 5 MATHEMATICS

### PAPER 1 (BOOKLET B)

Total Time for Booklets A and B: 50 minutes

#### INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

The use of calculators is **NOT** allowed.

Name:

Class: Primary 5. \_\_\_\_\_

Date: 9 October 2012

Paper 1 Booklet A	/ 20
Paper 1 Booklet B	/ 20
Paper 2	/ 60
<b>TOTAL</b>	<b>/ 100</b>

This booklet consists of 8 printed pages including this page.

Do not write  
in this space

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

16. What is the value of the digit A?

$$\begin{array}{r} \phantom{9} \boxed{A} \\ \phantom{9} \phantom{\boxed{A}} \\ \times \phantom{9} \phantom{\boxed{A}} \\ \hline \boxed{A} \phantom{\boxed{A}} 2 \end{array}$$

Ans: \_\_\_\_\_

17. Susan has three cards. 25 is the biggest number and the sum of the numbers on the three cards is 60. The numbers on the other two cards are multiples of 7. What are the numbers on the other two cards?

25	?	?
----	---	---

Ans: \_\_\_\_\_

Score

--

Do not write  
in this space

18. Express 35 minutes as a fraction of 2 hours in the simplest form.

Ans: \_\_\_\_\_

19. What is the missing number in the box?

$$\frac{2}{7} = \frac{2 + \square}{7 + 28}$$

Ans: \_\_\_\_\_

20.  $\frac{2}{5}$  of a number is 18. What is the number?

Ans: \_\_\_\_\_

Score

Do not write  
in this space

21. Ants are known to carry items up to 50 times their body mass. The mass of a worker ant is 0.004 g. What is the **maximum** mass that it can carry?

Ans: \_\_\_\_\_ g

22. The average mass of four girls is 38 kg. One of them weighs 40 kg. Find the total mass of the rest of the girls.

Ans: \_\_\_\_\_ kg

23. What is the price of the toy bear after adding 7% GST?

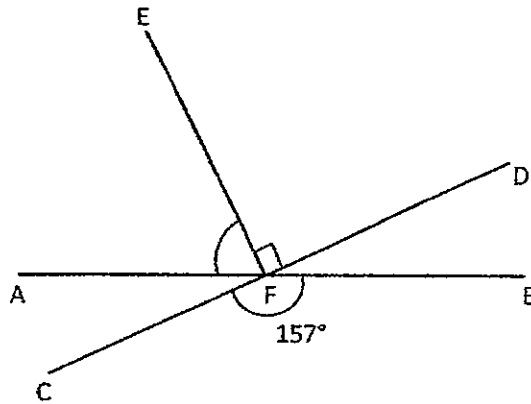


Ans: \$ \_\_\_\_\_

Score

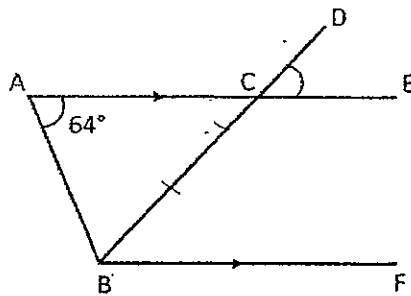


24. In the figure, AB and CD are straight lines. Find  $\angle AFE$ .



Ans: \_\_\_\_\_°

25. In the figure, ABC is an isosceles triangle and  $AC = BC$ . Find  $\angle DCE$ .



Ans: \_\_\_\_\_°

Do not write  
in this space

Score

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write  
in this space

26. In a shop, oranges are sold at 60 cents each or in bags of 5. Susan bought 4 bags of oranges and saved a total of \$1.80. How much does a bag of oranges cost?

Ans: \$ \_\_\_\_\_

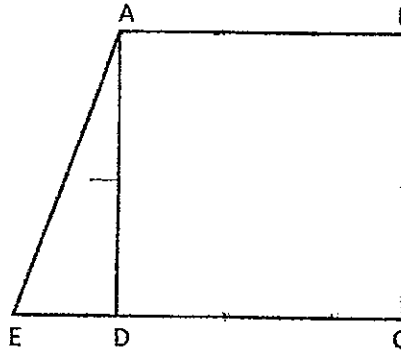
27. Helen spent 35% of her money on a blouse and 25% of her money on two shirts. She had \$32 left after buying these items. What was the cost of one shirt?

Ans: \$ \_\_\_\_\_

Score

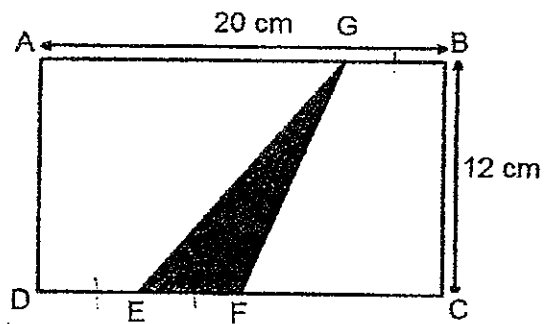
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in this space

28. In the figure, ABCD is a square and CE is a straight line. CD is three times the length of DE. The area of ABCE is  $42 \text{ cm}^2$ . Find the length of ED.



Ans: \_\_\_\_\_ cm

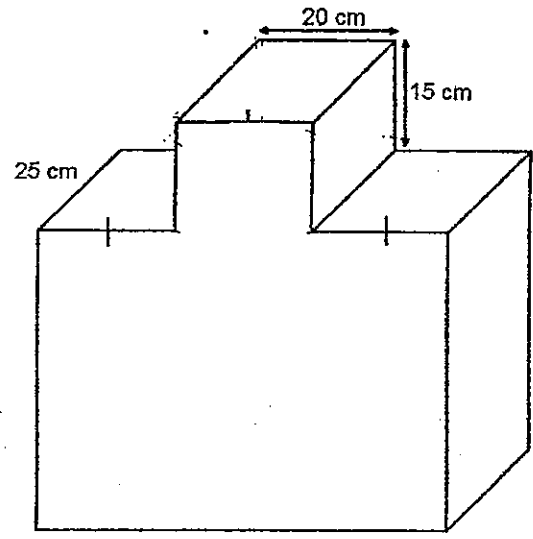
29. In the figure below, ABCD is a rectangle. F is the mid-point of CD, and  $DE = EF = GB$ . What is the ratio of the shaded region to the rectangle?



Ans: \_\_\_\_\_

Score

30. The solid below has a height of 65 cm. It is made up of 2 cuboids. What is its volume?



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Ans: \_\_\_\_\_ cm<sup>3</sup>

Score