METHODIST GIRLS' SCHOOL

Founded in 1887



PRIMARY 5 MID-YEAR EXAMINATION 2010 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 <u>NOT</u> allowed.

Name:		(, i
Class:	Primary 5	•	
Date:	6 May 2010		

This booklet consists of 5 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)

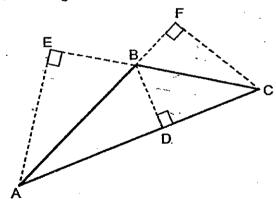
1. Study the pattern below.

D D	Đ	C	C	В	В	A	Α	D	D	D	C	C	В	В	Α	Α	D	?
1 st								10	lh .									133 rd

What is the 133rd letter in the pattern?

- (1) A
- (2) B
- (3) C
- (4) D
- 2. When two six-faced dice are rolled at exactly the same time, how many different combinations are there to get a sum of 8?
 - **(1)** 1
 - (2) 2
 - (3) 3
 - (4) 4
- 3. It takes about 5 hours to drive from Singapore to Kuala Lumpur. After driving for 3 1/3 h, Mr Lim stopped at a small town for a meal. How much longer would he need to drive to arrive at Kuala Lumpur?
 - (1) $1\frac{1}{3}$ h
 - (2) $1\frac{2}{3}$
 - (3) $2\frac{1}{3}h$
 - (4) $2\frac{2}{3}h$

- 4. Ah Meng made 5 litres of lemonade to sell at a funfair. He sold $\frac{1}{4}$ of it in the morning and another $\frac{3}{8}$ of it in the afternoon. How much lemonade did he sell altogether?
 - (1) $\frac{1}{3}$
 - (2) $\frac{7}{12}$ (2)
 - $(3) 1\frac{2}{3} \ell$
 - (4) $3\frac{1}{8} \ell$
- 5. Rafi's mother gave him \$24 a week for his daily expenses. He spent $\frac{1}{6}$ of it everyday, from Monday to Friday, and saves the rest. How much money does Rafi save in 4 weeks?
 - (1) \$80
 - (2) \$20
 - (3) \$16
 - (4) \$4
- 6. BC is the base of the triangle. Which of the following is the height?



- (1) AB
- (2) AF
- (3) BD
- (4) AE

				4		:	
		;					
7.	Ann cy covere	/cled 1.02 km and ed?	walked 300 m	to reach her so	chool. What wa	s the distance	
	(1)	1 230 m					
	(2)	1 302 m					
-	(3)	1 320 m					
	(4)	4 020 m					
8.	Jug A	has a capacity wh	nich is $\frac{2}{5}$ of Jug	B's.capacity.	How much wat	er can Jug B	
	contai	n if Jug A's capaci	ity is 1.4 t?	. •			
	(4)	400 ml					
	(1)	400 mt 560 mt	•				
	(2) (3)	1 000 ml					
	(3) (4)	3 500 ml					
	(4)	3-500 m.					
9.	she u	bought 10 m of rib se for 1 present? (Give your answe	er to 1 decimal	place.		
	(1)	0.9 m	<u>:</u>				
	(2)	1.0 m	• :				
	(3)	1.1 m	·				
			·				
-10	(3) (4)	1.1 m 1.2 m	hara ara 28 girl	e and the rest	ara hove What	is the ratio of the	<u>.</u>
10.	(3) (4) In a c	1.1 m			are boys. What	is the ratio of the	•
10.	(3) (4) In a c numb	1.1 m 1.2 m lass of 40 pupils, t er of boys to the n			are boys. What	is the ratio of the)
	(3) (4) In a conumb	1.1 m 1.2 m lass of 40 pupils, ter of boys to the n 3:7			are boys. What	is the ratio of the	•
	(3) (4) In a c numb (1) (2)	1.1 m 1.2 m lass of 40 pupils, ther of boys to the n 3:7 3:10			are boys. What	is the ratio of the	•
	(3) (4) In a conumb (1) (2) (3)	1.1 m 1.2 m lass of 40 pupils, ther of boys to the n 3:7 3:10 7:3			are boys. What	is the ratio of the	•
	(3) (4) In a c numb (1) (2)	1.1 m 1.2 m lass of 40 pupils, ther of boys to the n 3:7 3:10			are boys. What	is the ratio of the	•
	(3) (4) In a conumb (1) (2) (3) (4)	1.1 m 1.2 m lass of 40 pupils, ther of boys to the n 3:7 3:10 7:3 7:10	umber of girls?		-	,	
	(3) (4) In a conumb (1) (2) (3) (4) Therefore transf	1.1 m 1.2 m lass of 40 pupils, there of boys to the n 3:7 3:10 7:3 7:10 were 5 more pupils are the pupils are t	umber of girls? ils in Primary 5/ y 5B to Primary	A than in Prima	ary 5B. When 3	, pupils were	
	(3) (4) In a conumb (1) (2) (3) (4) Therefore transf	1.1 m 1.2 m lass of 40 pupils, ther of boys to the n 3:7 3:10 7:3 7:10	umber of girls? ils in Primary 5/ y 5B to Primary	A than in Prima	ary 5B. When 3	, pupils were	•
	(3) (4) In a conumb (1) (2) (3) (4) Therefore transf	1.1 m 1.2 m lass of 40 pupils, ther of boys to the n 3:7 3:10 7:3 7:10 were 5 more pupils were 5 more 5 more pupils were 5 more 5 mor	umber of girls? ils in Primary 5/ y 5B to Primary	A than in Prima	ary 5B. When 3	, pupils were	
	(3) (4) In a conumb (1) (2) (3) (4) Therefore transforms (1)	1.1 m 1.2 m lass of 40 pupils, ther of boys to the n 3:7 3:10 7:3 7:10 were 5 more pupierred from Primary 5A than in Primary 5	umber of girls? ils in Primary 5/ y 5B to Primary	A than in Prima	ary 5B. When 3	, pupils were	
	(3) (4) In a conumb (1) (2) (3) (4) Therefore transformation (1) (1) (2)	1.1 m 1.2 m lass of 40 pupils, ther of boys to the n 3:7 3:10 7:3 7:10 e were 5 more pupilerred from Primariny 5A than in Primaring 5	umber of girls? ils in Primary 5/ y 5B to Primary	A than in Prima	ary 5B. When 3	, pupils were	
	(3) (4) In a conumb (1) (2) (3) (4) Therefore transforms (1) (2) (3)	1.1 m 1.2 m lass of 40 pupils, ther of boys to the n 3:7 3:10 7:3 7:10 e were 5 more pupilerred from Primary 5A than in Primary 5	umber of girls? ils in Primary 5/ y 5B to Primary	A than in Prima	ary 5B. When 3	, pupils were	
. 11.	(3) (4) In a conumb (1) (2) (3) (4) Therefore transf Prima (1) (2) (3) (4)	1.1 m 1.2 m lass of 40 pupils, ther of boys to the m 3:7 3:10 7:3 7:10 were 5 more pupilerred from Primary 5A than in Primary 5	umber of girls? ils in Primary 5/ y 5B to Primary	A than in Prima	ary 5B. When 3	, pupils were	
. 11.	(3) (4) In a conumb (1) (2) (3) (4) Therefore transforms (1) (2) (3)	1.1 m 1.2 m lass of 40 pupils, ther of boys to the m 3:7 3:10 7:3 7:10 were 5 more pupilerred from Primary 5A than in Primary 5	umber of girls? ils in Primary 5/ y 5B to Primary	A than in Prima	ary 5B. When 3 more pupils w	pupils were ere there in	
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12.	Mary bought $\frac{5}{6}$ kg/of flour. She used $\frac{1}{2}$ kg/ of it to bake some scones and	$d \frac{1}{5}$ of the
	remainder to bake some cookies. How much flour had she left?	

- (1) $\frac{1}{12}$
- (2) $\frac{1}{24}$
- (3) $\frac{2}{15}$
- (4) $\frac{4}{15}$

What is the missing fraction in the box?

- (1) $\frac{11}{100}$
- (2) $\frac{11}{1000}$
- (3) $\frac{101}{1000}$
- $(4) \qquad \frac{111}{1000}$
- 14. How many tenths must be added to 73.34 to get 74.44?
 - (1) 1.
 - (2) 1.1
 - (3) 10
 - (4) 11
- 15. Mrs Osman had \$84. She gave the money to her sons, Azli and Sulaiman, in the ratio 2:5. How much more money did Sulaiman receive?
 - (1) \$12
 - (2) \$24
 - (3) \$36
 - (4) \$60

End of Booklet A

METHODIST GIRLS' SCHOOL

Founded in 1887



PRIMARY 5 MID-YEAR EXAMINATION 2010 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: 6 May 2010

Paper 1 Booklet A		/ 20
Paper 1 Booklet B		<i>Î</i> 20
Paper 2		/ 60
TOTAL	-	/ 100

This booklet consists of 6 printed pages including this page.

·	uestions which requir					(10 marks)
	· · · · · · · · · · · · · · · · · · ·					•	
6.	Find the greatest w	hole number suc	h that				
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	X 8 < 102						
			•				
		•					
		•	• -		Ans:	-	
	•				•		
7.	What is the missing	number in the b	ox?				
	350 x 40 = h	undreds					
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						1	. "
					Ans:	; 	,
		•	•			-	
					-		
8.	The perimeter of a	rectangle is 48 c	m and its brea	dth is 7	cm. Find	its length	1.
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20.	How many par	cels can be ti	ed using the	roll of ribl	bon?	is needed	i to tie a	parcos.
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	Martha bought	3 m of clot	h Sheuse	115 m of	it to sew	a skirt		
21.				6	R 10 0011	<i>a</i>		
	How much clo	tn nad sne ie	H.f					
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	:					Ans:		w
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22.	Mr Lim withdr set. What fra	ew \$1 500 fro	om his bank	account.	He spent	\$1 250 c	n a new	television
	Set. Whatha	Chon or ma m	ioney naa n	J tolt.	₹ . *			
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			4				
			,				
23.	Rashid's we	eight was 32 ¹ / ₋ kc	ı in Mav. In June	e. his weight	t increased by an	other $3\frac{5}{}$ kg.	
		was he in June?				12	
	•		•		•		
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			•				
•					Ans:		3
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24.	The total he what is the l	eight of 3 boys is height of the third	4.11 m. The tot boy?	al height of	2 of the boys is 2	98 m,	
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2 4						,	
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					Ans: :	n	1
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25.	For every 2 How many a	apples that Mr A apples did he sel	ing sells, he sell: l?	s 3 oranges.	. He sold 93 orar	iges.	•
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	•						

Questions 26 to 30 carry 2 marks each.	Show your work	ing clearly in the spac	e below each
question and write your answers in the s	spaces provided.	For questions which	require units,
give your answers in the units stated.			(40

(10 marks)

26. Find the value of \heartsuit and in the following statements.

Ans:	಼ =	
	⊗ =	_

27. Use the digits 0, 2, 3, 7 to form the smallest 3-digit number that can be divided by 3 without any remainder.

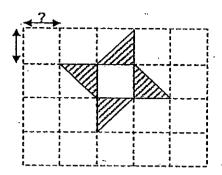
Ans:			
Alio.	 	 	_

28.
$$\frac{1}{4} + \frac{1}{4} = \begin{bmatrix} x & \frac{1}{4} + 1 & \frac{3}{4} \\ x & \frac{1}{4} & \frac{1}{4} & \frac{3}{4} \end{bmatrix}$$

What is the missing number in the box?

Ans:

29. The figure is made up of 4 triangles drawn on a square grid. The shaded parts have an area of 18 cm². What is the length of 1 unit of the grid?



_	_	
Ans:	·	CIT

30. Mrs Lim bought $2\frac{2}{3}$ m of cloth. Mrs Tan bought $1\frac{1}{6}$ m of cloth. How much cloth do they have altogether? Give your answer correct to 2 decimal places.

_	1	
Ans:	i	m
		

विकास क्षेत्र के स्थान है।

End of Booklet B

METHODIST GIRLS' SCHOOL

Founded in 1887



PRIMARY 5 MID-YEAR EXAMINATION 2010 MATHEMATICS

PAPER 2

Duration: 1 h 40 min

INSTRUCTIONS TO CANDIDATES

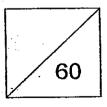
Do not turn over this page until you are told to do so. Fellow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

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

Name:)
Class:	Primary 5.	
Date:	6 May 2010	

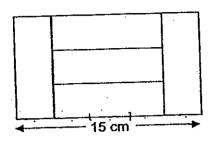


(eggs) bein an This booklet consists of 14 printed pages including this page.

	ed.						(10 marks
1.	When a sum of money is o	livided ed	ually amo	ng 16 girls	s, each gi	d gets \$1	5.
	How much will each girl ge	et if 9 mor	e girls join	the group	?		
					Ans:	\$	·
	I am a decimal number be The sum of all my digits is		rith the dig	it 4.			
	The digit in my ones and h What number am 1?		s place is	the first co	mmon m	ultiple of	2 and 3.
	•			مغبيب ي			
-					; ;		-
	:				-	•	
			•		Ans:		
	:				:		
	Mary bought some stickers	s. She ga	$\frac{1}{6}$ of if	to Amelia	, and $\frac{2}{3}$	of the ren	naining
	stickers to Bonita. She ke What fraction of the sticker	pt the res	t for herse have left	lf. for herself	?	•	-
				-			
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	!	***************************************				••	
	•				Ans:		
	; ;			1370	•	on to th	e next page

4. Five similar rectangles are cut from a piece of paper which has a length of 15 cm.

Find the area of threctangles.



	:	ami
Ans:		cm ²
-u iv-		

 Seven seedlings are planted evenly spaced over a distance of 10.5 m. What is the distance between the 1st and 5th seedling.

Ans:

For questions 6 to 18, show your working clearly and write you	ur answers in the spaces
provided. The number of marks available is shown in bracket	s [] at the end of each
question or part-question.	

(50 marks)

6.	Mr Samy has 441 fruits in his stall.	•
	$\frac{5}{7}$ of the fruits at Mr Samy's stall are oranges,	$\frac{1}{9}$ are apples and the rest are pears.

How many pears does he have in his stall?

	•	
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ıns:		1.51
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7. Rani filled 3 similar jugs, A, B and C with apple juice in the ratio 3:4:5 respectively. She poured all the juice in Jug C into 6 glasses, and each glass had a capacity of 225 mt of juice each. How much juice was there in the 3 jugs altogether? Give your answer in litres.

Ans:_____[3]

8.	Samad's weight is $\frac{6}{7}$ of Ricky's weight and Ricky's weight is $\frac{1}{2}$ of Benny's weight.
	If Benny is 42 kg, how much heavier is Benny than Samad?

Ans:	[3	3]
MID.	t-	1

9. A stall at the market sells a 3-kg bag of potatoes for \$2.85 and a 5-kg bag for \$4.50. What is the minimum amount Mrs Yeo has to pay to buy exactly 24 kg of potatoes from the stall?

Ans: _____[3]

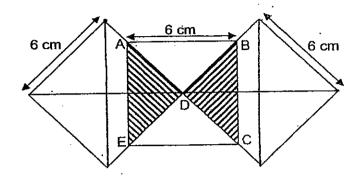
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CARROLING RESIDE A MARKATIY

- 10. The figure is made up 3 similar overlapping squares of side 6 cm.

 The squares touched one another at corners A, B, C, D and E.

 Jane shaded the parts where the squares overlapped each other.
 - (a) Find the area of the figure.
 - (b) What fraction of the figure is the shaded part?



Ans: (a) _____[2]

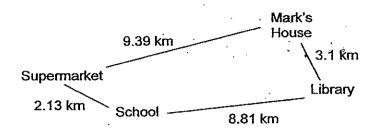
.(b)_____[1]

(Go on to the next page)

(An or us, the test pego)

i.·	Sarah and June ha to each girl's pig How much did June	ad a total gy bank have at f	of \$132 , June irst?	in their had 3	piggy limes	banks. V as much	Vhen \$20 money	was added as Sarah
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12. The diagram below shows the distance from Mark's house to the various places. Study it and answer the following questions.



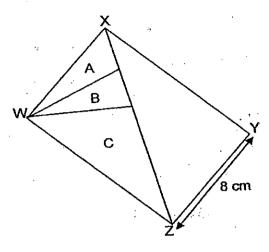
- (a) What was the shortest distance that Mark took to travel to school?
- (b) From Monday to Friday, Mark travels to the supermarket, to school, to the library and back to his house. He can travel for 12 km on 1 litre of petrol. If 1 litre of petrol costs \$1.72, how much did he spend on petrol for those days? Give your answer correct to 2 decimal places.

Ans: (a) [1] (b) [3] (Go on to the next page)

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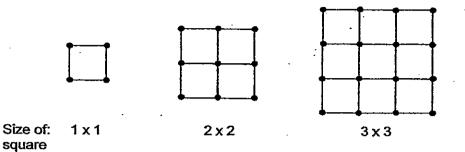
WXYZ is a rectangle which has a breadth of 8 cm. It is divided into 4 triangles. Triangle A is $\frac{1}{10}$ the area of the rectangle and $\frac{1}{3}$ the area of Triangle C. 13. Triangle B has an area of 12 cm².

- Find
 (a) the area of the rectangle and
 (b) its perimeter.



[2] Ans: (a) [2] (b) (Go on to the next page)

The following patterns shown below are created using dots and lines. It takes 4 dots to form a square, 9 dots to form 4 squares, 16 dots to form 9 squares. 14.



- (a) How many dots are needed to create the next pattern?(b) What is the size of the square formed using 144 dots?

Ans: (a) [2] (b)

15. Sam and Mark shared a certain amount of money.

After Sam had spent $\frac{1}{3}$ of his money and Mark spent $\frac{5}{9}$ of his money, Sam had twice as much money as Mark left. How much did Sam spent if Mark spent \$38?

Ans: [4]

(Go on to the next page)

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16. Maniam has $\frac{1}{5}$ as much money as Nancy, and Nancy has $\frac{3}{8}$ as much money as Osman. If Osman has \$444 more than Maniam, how much do the 3 children have altogether?

Ans: [5

(Go on to the next page)

car on to the next fame.

17.	There are 42 pupils in each of the classes, Primary 5A and Primary 5B.
	The ratio of the number of boys in Primary 5A to the number of boys in Primary 5B was
	3:4. The ratio of the number of girls in Primary 5A to the number of girls in Primary 5B
	was 4:3. There were 56 boys altogether in both classes.
	What was the ratio of boys in Primary 5A to the number of girls in Primary 5B?

THE OF PARTY

Ans: _____[5]

- 18. Ethan had 242 red, blue and yellow marbles altogether. He had 18 more blue than red marbles and half as many yellow as blue marbles.(a) How many blue marbles did he have?(b) How many more yellow marbles does he need to buy so that he has the same number of yellow and red marbles.

Ans: (a) (b) [2]

(So of a the next page)

End of Paper

× .



answer sheet

EXAM PAPER 2010

SCHOOL: MGS PRIMARY

SUBJECT: PRIMARY 5 MATHEMATICS

TERM : SA1



Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
2	3	2	4	3	4	3	4	3	1	4	3	3	4	3

16)12

17)140

18)17

19)8/15

20)8 parcels

21)23/30m

22)1/6

23)353/4kg

24)1.13m

25)62 apples

26) 💥 = 3

 \otimes = 1!

27)20

28)3

29)3cm

30)3.83m

Paper 2

1)15 x 16 = 240 16 + 9 = 25 240 ÷ 25 = \$9.6	2)46.46
3)1/3 x 5/6 = 5/18	4)15 ÷ 5 = 3 3 x 3 = 9 9 x 3 = 27cm ₂
5)10.5 ÷ 6 = 1.75 1.75 x 4 = 7m	6)5/7 + 1/9 = 45/63 + 7/63 = 52/63 441 ÷ 63 = 7 63/63 - 52/63 = 11/63 11 x 7 = 77 pears
7)Total amt. of 6 glasses = 225 x 6 = 1356 1u→1350÷ 5 = 270 3 + 4 + 5 = 12 12u→270 x 12 = 3240 Lit res = 3240÷ 1000= 3.240(L) There was 3.24L of juice	8)7 x 2 = 14 42 ÷ 14 = 13 8 x 3 = 24kg

···	
9)3 + 5 = 8	10)a)6 x 6 = 36
24 ÷ 8 = 3	36÷ 4 = 9
2.85 + 4.50 = 7.35	$36 \times 3 = 108$
$7.35 \times 3 = 22.05	108 - 18 = 90cm ²
	b)2/10 = 1/5
11)Total amt = 132 + 20 + 20 = 172	12)a)3.1km + 8.81km = 11.91km
$1u \rightarrow 172 \div 4 = 43$	9.39 + 2.13 = 11.52km
June's amt.= 43 x 3 = 129	b)(9.39 + 2.13 + 8.81 + 3.1) x 5
At first=129 - 20 = \$109	= 117.15
	(117.15 + 12) x 1.72 = \$16.79
13)a)Total no. of parts→10	14)a)4 x 4 = 16
Triangle A→1 unit	16 + 9 = 25 dots
Triangle B→1 unit→12cm2	b)144 = 12 x 12
Triangle C→3 units	12-1=11
10 x 12 = 120cm ²	The size is 11 x 11
b)Breath \rightarrow 120 \div 8 = 15	
Perimeter→2 x (15+8)= 46cm	
15)38÷ 5 = 7.60	16)37u→\$444
$7.60 \times 4 = 30.40	$444 \div 37 = 12.00$
	40 + 15 + 3 = 58
	58 x 12 = \$696
17)1:1	18)a)18 x 4 = 72
	242 - 72 = 170
	$170 \div 5 = 34$
	34 + 18 + 34 + 18 = 104 marbles
	b)34 + 18 = 52
	52 + 34 = 86
	86 - 52 = 34 yellow marbles
	<u> </u>