

NAN HUA PRIMARY SCHOOL NON-WEIGHTED ASSESSMENT 2 2024 PRIMARY 6

MATHEMATICS PAPER 1 (BOOKLET A)

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

- 1. Write your name and index number in the space provided.
- 2. Do not turn over the page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Shade your answers in the Optical Answer Sheet (OAS) provided.
- 6. The use of calculators is **NOT** allowed.

Name :	(
Form Class : 6	Teaching Group: 6M
Date : 7 May 2024	

This booklet consists of 7 printed pages and 1 blank 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) and shade your answer on the Optical Answer Sheet.

(20 marks)

•		
1	Whic	ch of the following is thirty-eight thousand and thirty in numerals?
	(1)	3830
	(2)	38 030
	(3)	38 300
	(4)	380 030
2	Wha	at are the common factors of 18 and 81?
	(1)	3 and 6
	(2)	3 and 9
	(3)	6 and 18
	(4)	9 and 18
3	lam	a multiple of 6 and a factor of 24. What number am !?
	(1)	8
	(2)	2

(3) 3

(4) 12

4 Arrange the following numbers from the largest to the smallest.

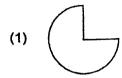
8.03 8.3 8

Largest		<u>Smallest</u>	
(1)	8	8.03	8.3
(2)	8.3	8	8.03
(3)	8.3	8.03	8
(4)	8.03	8.3	8

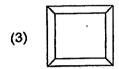
$$5 7 + \frac{7}{10} + \frac{7}{1000} = \underline{\hspace{1cm}}.$$

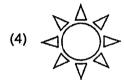
- (1) 7.07
- (2) 7.077
- (3) 7.707
- (4) 7.77
- 6 Express $8\frac{3}{50}$ as a decimal.
 - (1) 8.03
 - (2) 8.06
 - (3) 8.3
 - (4) 8.6

7 Which figure below has only one line of symmetry?

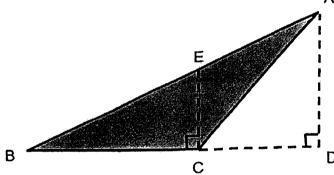








Given that the base of triangle ABC is BC, find the height that is related to the base BC.



- (1) CE
- (2) AD
- (3) AC
- (4) AB

0008/1(A)

9 What is the missing number in the box?

$$\frac{8}{12} = \frac{}{9}$$

- (1) 6
- (2) 5
- (3) 3
- (4) 4

Mary bought a pizza. She ate $\frac{1}{4}$ of the pizza and her brother ate $\frac{1}{12}$ of the pizza. What fraction of the pizza was left?

- (1) $\frac{1}{6}$
- (2) $\frac{1}{3}$
- (3) $\frac{2}{3}$
- (4) $\frac{3}{4}$

11 Ken used $\frac{4}{7}$ of his money to buy 8 donuts and 4 pies. The cost of 4 donuts was the same as that of 2 pies. What was the most number of pies that Ken could buy with the amount of money he had left?

- (1) 8
- (2) 2
- (3) 6
- (4) 4

12 Zach kept his red and blue marbles in two boxes.

The ratio of the number of red marbles to blue marbles in the first box was 1:5 and it was 1:2 in the second box. The two boxes contained the same number of marbles.

What fraction of Zach's marbles were red marbles?

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

 $\frac{4}{9}$ of the people at a carnival were adults and the rest were children. The number of boys was twice the number of girls. What was the ratio of the number of boys to the number of adults?

- (1) 1:2
- (2) 2:1
- (3) 6:5
- (4) 5:6

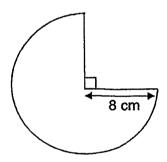
14

Container	Number of markers	Percentage of markers which are blue
Α	200	6%
В :	400	12%

What percentage of the total number of markers in container A and B are blue?

- (1) 6%
- (2) 10%
- (3) 12%
- (4) 18%

The figure shows part of a circle. Find the perimeter of the following figure. Leave your answer in terms of π .



- (1) $(6\pi + 16)$ cm
- (2) $(12\pi + 16)$ cm
- (3) $(16\pi + 16)$ cm
- (4) $(48\pi + 16)$ cm



NAN HUA PRIMARY SCHOOL NON-WEIGHTED ASSESSMENT 2 2024 PRIMARY SIX

MATHEMATICS PAPER 1 (BOOKLET B)

Total Time for Booklets A and B: 1 hour

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INSTRUCTIONS TO CANDIDATES

- 1. Write your name and index number in the space provided.
- 2. Do not turn over the page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Use dark blue or black ball point pen to write your answers in the space provided for each question.
- 6. Do not use correction tape/ fluid/ highlighter.
- 7. The use of calculators is NOT allowed.

Marks Obtained

Section		Maximum Marks	Actual Marks
Paper 1 Booklet A		20	
raper i	Booklet B	25	
Paper 2 Total		55	
		100	

Name :	(
Form Class : 6	Teaching Group: 6M
Date : 7 May 2024	

This booklet consists of 8 printed pages.

Ques For q	stions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. Juestions which require units, give your answers in the units stated.	(5 m	narks)	
16	Find the value of 7.5 ÷ 30.			
17	Write down the common multiple of 6 and 8 that is smaller than 40.	Please do not write in the marain		
18	Find the value of 12 $\times \frac{8}{9}$. Leave your answer as a mixed number in its simples form.			
No. 814 - Long Age	Ans:			

19	Find the value of $\frac{3}{4} \div 12$.	Leave your answer in its simplest form.
----	---	---

20 Find the value of $22 - 12 \div (4 + 2) \times 4$.

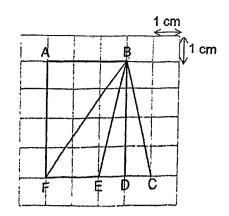
Ans: _____

(Go on to the next page)

Questions 21 to 30 carry 2 marks each. Show your working clearly and write your ans	wers in
the spaces provided. For question which require units, give your answers in the units	stated.
and opacious provisions in or quotient the same of the	(20 marks)

		(20 marks)
21	Using the line AB provided below, construct ∠BAC = 80°.	
	A B	
22	The solid shown below is made of 1-cm cubes. What is the volume of the solid?	
		e margin
	Ans :cm³	Please do not write in the margin
23	6000 ml of juice was poured into 8 identical bottles equally. How much juice was there in one bottle?	Please do l
	Ans :	
	0008/1(B)	

Look at the figure below. 24



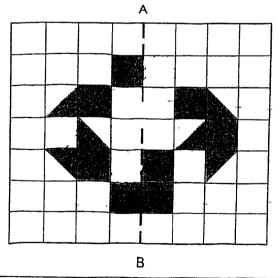
(a) What is the area of triangle BEF?

Ans	: (a)	cm ²
-----	-------	-----------------

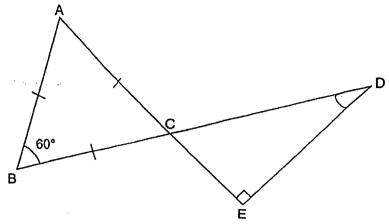
Which triangle has an area twice the area of triangle BEF? (b)

Ans : (a) cm ²	in the margin.
f triangle BEF?	
Ans : (b) Δ	lease do not write

The figure is made up of identical squares and identical triangles. Shade 4 more 25 squares to form a symmetric figure with AB as the line of symmetry.



(Go on to the next page)



Ans:_____

Ivan started revising for a test at 8.05 a.m. while Kevin started 10 minutes later. Ivan completed 25 minutes earlier than Kevin who completed it at 9.20 a.m.. How much more time did Kevin spend on his revision than Ivan?

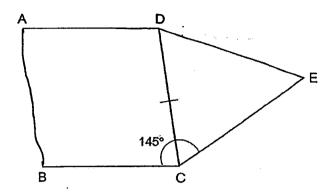
Ans : _____ mir

Please do not write in the margin.

28	A pattern is formed using the letters A, B and N. The first 15 letters are shown.	
	1st 15 th ? th A,B,A,N,AA,B,A,N,A,N	
	The letter A appears 23 times in the pattern. What is the greatest possible number of letters in the pattern?	
	Ans :	
' 29	A rectangle Y is drawn by joining dots on the square grid below with four straight lines. Lines must meet at the dots in the given grid. In the same way, draw a rectangle, with the same area as Y, that gives the largest possible perimeter. Label the rectangle R.	Please do not write in the margin.
		<u>ş</u>

(Go on to the next page)

In the figure below, ABCD is a rhombus. \triangle CDE is an isosceles triangle. \angle BCE = 145°.



Each of the statement below is either true, false or not possible to tell from the information given. For each statement, put a tick (\checkmark) to indicate your answer.

True	False	Not possible to tell
.		
	True	True False

Please do not write in the margin

End of Paper



NAN HUA PRIMARY SCHOOL NON-WEIGHTED ASSESSMENT 2 2024 PRIMARY SIX

MATHEMATICS PAPER 2

Time: 1 hour 30 minutes

INSTRUCTIONS TO CANDIDATES

- 1. Write your name and index number in the space provided.
- 2. Do not turn over the page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Use dark blue or black ball point pen to write your answers in the space provided for each question.
- 6. Do not use correction tape/ fluid/ highlighter.
- 7. The use of calculators is allowed.

Marks Obtained

Section	Maximum Marks	Actual Marks
Paper 2	55	:

Name :)
Form Class : 6	Teaching Group: 6M	_

Date : 7 May 2024

This booklet consists of 15 printed pages and 1 blank page.

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

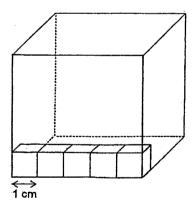
1 The rate for parcel postage at a post office is shown in the table below.

Mass step not over	100 g	250 g	500 g	Every additional 100 g
Postage	\$2.50	\$3.90	\$5.20	\$1

Alice posted a parcel that weighed 660g. How much did she pay for the postage?

Ans: \$	in the margin.
. The box is a cube. What is	Please do not write

The box below is filled with some 1-cm cubes. The box is a cube. What is the volume of the box?

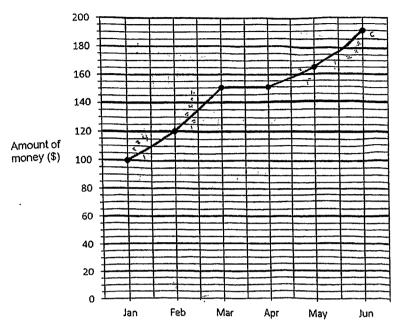


 Ans:

^

cm3

3 The line graph shows the amount of money Siti had in her bank on the last day every month.



Every month, Siti tried to deposit some money into the bank without making any withdrawal.

(a) In which month did she not make any deposit?

Ans:		

(b) In which month did she deposit the most amount of money?

Ans:

(Go on to the next page)

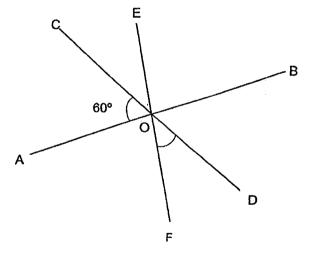
Please do not write in the margin.

The average mass of 3 girls is 28 kg. A fourth girl joined the group and the average mass becomes 29 kg. What is the mass of the fourth girl?

Please do not write in the margin.

Ans: _____ kg

In the figure below, AB, CD and EF are straight lines. ∠AOC is 60°. ∠BOE is twice of ∠FOD. What is ∠FOD?



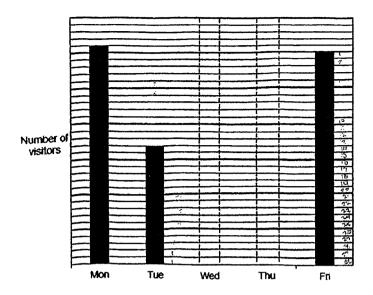
Ans: _____

prov	questions 6 to 17, show your working clearly and write your answers in the strict of the number of marks available is shown in brackets [] at the end of stion or part-question.	
6	Bala had some muffins for sale. In the morning, he sold $\frac{1}{3}$ of the muffins.	
	In the afternoon, he sold $\frac{2}{5}$ of the remaining muffins. After that, there were	
	42 muffins left. How many muffins did Bala have at first?	
	Ans:[3	
		the m
7	Ivan and Helen shared a sum of money in the ratio of 3: 2. When Ivan gave	Please do not write in the margin
	\$21 to Helen, the ratio of Ivan's amount of money to Helen's amount of	f ou o
	money became 2:13. How much money did Ivan have at first?	ease d
		ā
	Ans:[3]
	(Go on to th	ne next page)

cu	aren pai ıpcakes e discou	could sl	r 15 cupca ne have bo	akes after a ought with t	25% dis he same	count. How amount of	w many f money	without	
									n the margin.
									Please do not write in the margin.
									Pleas

7

9 The bar graph shows the number of visitors to an art gallery.



(a) There were 56 more visitors on Monday than Tuesday. How many visitors were there at the art gallery on Monday?

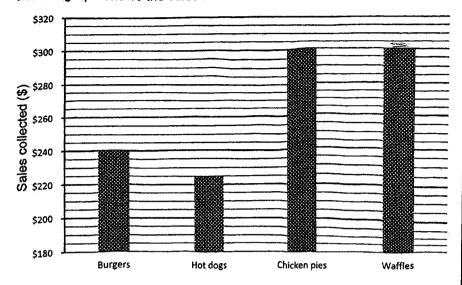
Ans: (a)	[1]
----------	-----

(b) The average number of visitors at the art gallery from Wednesday to Friday was 75. There were more visitors on Wednesday than on Thursday. Given that the difference between the number of visitors on Wednesday and Thursday was the smallest possible number, what was the number of visitors on Thursday?

Ans:	(b)		[2	Ì
------	-----	--	----	---

(Go on to the next page)

10 The bar graph shows the sales of four food items at a fun fair.



The table shows the prices of the food items.

Type of food items	Price per item
Burger	\$5
Hot dog	\$3
Chicken pie	\$4
Waffles	\$3

(a)	Find the	number of	hot dogs	sold.
-----	----------	-----------	----------	-------

Ans:	(0)	[1]
Ans:	(2)	1.1

(b) The total number sold for two of the food items was the same. Which were the two food items?

Ans: (b)	and	[2	2]
----------	-----	----	----

Tom had a square piece of paper with an area of 64 cm². He cut out one quarter circle and three identical semicircles from it as shown below. The quarter circle had the same radius as each semicircle.

(Take $\pi = 3.14$)

(a) What is the radius of the quarter circle?

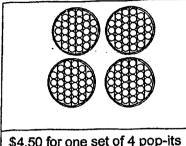
Aris: (a) ______[2

(b) What is the area of the remaining piece of paper?

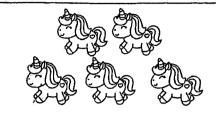
Ans: (b) _____[2]

(Go on to the next page)

Please do not write in the margin.



\$4.50 for one set of 4 pop-its



\$18 for a set of 5 unicorn soft toys

(a) If Ms Chou wants to buy 18 pop-its and 22 unicorn soft toys, what is the least amount of money that she needs to spend on both items?

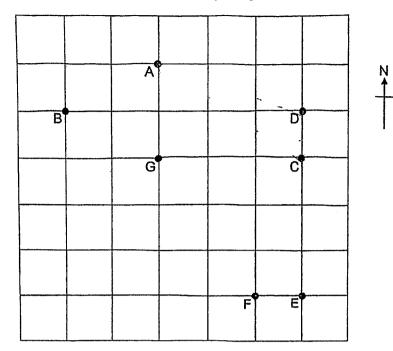
Ans: (a)_

Please do not write in the margin.

(b) She is given a 10% discount for all the items bought. How much will she pay?

Ans: (b)_

13 A, B, C, D, E, F, G are points on the square grid.



(a) (i) Which one of the points shown on the square grid is south-east of point B?

Ans:	(ai)		[1]
------	------	--	-----

(ii) Which direction is Point B from Point D?

Ans: ((aii)	[1	1

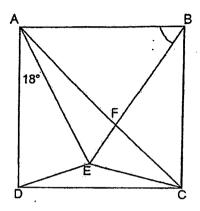
(b) Gabriel stands at a point which is facing Point E on the square grid. He makes a 135°-turn in an anti-clockwise direction and faces Point A. Which Point is he standing on?

Ans:	(b)	[1	1
	`~ /	 , ,	

(Go on to the next page)

Please do not write in the margin.

ABCD is a square. BFE and AFC are straight lines. BC = BE and ∠EAF = 18°.



(a) Find ∠ABE.

Ans: (a) _____[2]

(b) Find ∠BEC.

Ans: (b) _____[2]

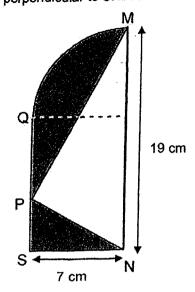
1

Please do not write in the margin.

3

15	• • • • • • • • • • • • • • • • • • • •					
	paid	\$1830 more than John.	• •			
	(a)	How much was Peter paid?				
		Ans: (a)[1]				
			gin.			
	(b)	Peter and John were paid based on the number of days they worked.	the mar			
	<i>-</i>	Peter worked 3 times as many days as John. Peter was paid \$5 more than John per day.	write in			
		How many days did Peter work?	Please do not write in the margin.			
			Please			
		Ans: (b)[3]				
		(Go on to the	next page)			

16 In the figure, QM is the arc of a quarter circle. MNP is a triangle and MN is perpendicular to SN. SN = 7 cm and MN = 19 cm.



$$(\text{Take } \pi = \frac{22}{7})$$

(a) Find the total area of the shaded parts.

Ans:	(a)	[3	}
	• •	 -	

(b) The perimeter of the unshaded triangle is 43.5 cm. Find the perimeter of the shaded parts.

\ns: (h			[2]
MIS. (w		 	141

Please do not write in the margin.

15

17 The table shows the charges for water consumption.

Amount of water used	Charge
Up to 40 m ³	117 cents per
Above 40 m ³	140 cents per m ³

(a) John's family used 32 m³ of water in March. How much did his family pay?

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

Please do not write in the margin.

(b) Simon's family spent \$66.40 on water consumption in April. How much water did his family use? (Give your answer in m³)

Ans: (b) _____[3]

End of Paper

Nan Hua Primary School NON-WEIGHTED ASSESSMENT 2 Primary 6 Mathematics 2024 Answer Key

Paper 1 Booklet A

No.	Answer	No.	Answer	No.	Answer
1	(2)	6	.(2)	11	(3)
	(2)	7	(1)	12	(3)
3	(4)	8	(2)	13	(4)
4	(3)	9	(1)	14	(2)
5	(3)	10	(3)	15	(2)

Paper 1 Booklet B

No.	Solution
16	7.5 ÷ 10 ÷ 3 = 0.25
17	Multiple of 6: 6, 12, 18, 24, Multiple of 8: 8, 16, 24, 24
18	$10\frac{2}{3}$
19	1 16
20	22 - 12 ÷ (4 + 2) x 4 = 22 - 12 ÷ 6 x 4 = 22 - 2 x 4 = 22 - 8 = 14
21	80°
	АВ

	Solution
Qn	Solution
	Volume of a cube = 1 cm ³
22	Volume of solid = 9 x 1 = 9 cm ³
23	6000ml = 6l $6l \div 8 = 0.75l$
24	(a) Triangle BEF $\Rightarrow \frac{1}{2} \times 2 \times 4 = 4 \text{ cm}^2$ (b) Twice of Triangle BEF = Triangle BCF
25	A I I I I I I I I I I I I I I I I I I I
26	∠CDE = 180 ° - 90 ° - 60 ° = <u>30 °</u>

Qn	Solution
27	Start End Duration Time Time Start End Duration Start Time Start Start
	1 ² 5 th 6 th 10 th 11 th 15 th A,B,A,N,A A,B,A,N,A, A,B,A,N,A,
28	3 'A's in a group of 5 23÷3 = 7 R2 $7x5 = 35$ $3 + 4 = 39$
29	R

Qn.	Solution				
30	360° + 180° =	540°			
	540° – 145° –		-		•
	Since ∠ABC =	∠ADC,	∠ABC c	annot be 12	5°
1					
	Statement	True	False	Not	
				possible	
				to tell	
	∠BAD +				
	∠DEC =				
	145°				
	∠ABC =				
	125°				

Paper 2

No.	Solution
1	660-500=160 160 = 200 First 500g → \$5.20 Additional 200g→ \$1x2 = \$2 \$5.20 + \$2 = \$7.20
2	5 × 5 × 5 = <u>125 cm³</u>
3	(a) April (b) March
4	Total of 3 girls→ 28 x 3 = 84 Total of 4 girls → 29 x 4 = 116 116 - 84 = 32 kg
5	∠BOE is twice of ∠FOD ∠FOD = ∠COE(vertically opposite angles) ∠BOE + ∠COE = 3 units = 180° - 60° = 120° ∠FOD = ∠COE = 120° ÷ 3 = 40°
6	$\frac{2}{5} \times \frac{2}{3} = \frac{4}{15} \text{ (Muffins sold in the afternoon)}$ $1 - \frac{1}{3} - \frac{4}{15}$ $1 - \frac{5}{15} - \frac{4}{15} = \frac{6}{15}$ 6 units = 42 1 unit = 7 15 units = 7 x 15 = 105 Bala had 105 muffins at first.

No.	Solution
7	Before
	I : H: Total
	3:2:5
	9:6:15
	After
	2: 13: 15
	Ivan gave Helen 9 - 2= 7 units
	7 units = \$21
	1 unit = \$3
	9 units = \$3 x 9 = <u>\$27</u>
8	75% → \$54
	1% → 54÷75= 0.72
	100% → 0.72 x 100 = \$72
	Original cost of 15 cupcakes is \$72
	15 cupcakes → \$72
	1 cupcake → \$72÷15 = \$4.80
	\$54 ÷ \$4.80 = 11.25
1	Without the discount, Karen could only buy 11 cupcakes
9	(a) $56 \div 14 = 4$
	Monday = $4 \times 31 = 124$
	(b) 75 x 3 =225
1	Friday=30 x 4 =120
1	225 - 120 = 105
	105 - 1 = 104
1	Thursday = 104 ÷ 2 = <u>52</u>
1	

No.	Solution
10	a)Number of hot dogs = \$225 ÷ \$3 = 75
	b)Number of chicken pies = \$300 + \$4 = 75
	Number of burgers = \$240 + \$5 = 48
	Number of waffles = \$300 + \$3 = 100
	Answer: Chicken pie and hot dog
11	(a) $\sqrt{64} = 8$
	Radius = 8 ÷ 4 = <u>2 cm</u>
	(b) 1.75 x 3.14 x 2 x 2 = 21.98 Remaining area = 64 - 21.98 = 42.02 cm ²
12	(a) 18 ÷ 4 ≈ 5 sets \$4.50 x 5 = \$22.50
	22 ÷ 5 ≈ 5 sets \$18 x 5 = \$90
	\$22.50 + \$90 = <u>\$112.50</u> She spent \$112.50
	(b) $100\% \rightarrow \$112.50$ $90\% \rightarrow \frac{112.5}{100} \times 90 = \101.25 She will pay \$101.25

No.	Solution
13	
	N N
	6 0
	FE
	(a) (i) F
	(ii) west (b) G-refer to diagram above
14	(a) ∠ABE = 180° - 2(45° + 18°) = <u>54°</u>
	(b) ∠EBC = 90° - 54°= 36°
	\triangle BEC = (180° - 36°) ÷ 2 = 72 °
15	(a)
	3390-1830 = 1560 1560 ÷ 2 = 780
	780 + 1830 = <u>2610</u>
	Peter received \$2610

No.	Solution
15	(b) Peter received \$2610 John received \$780 If Peter and John received the same pay per day. Peter should have received 780 x 3 = \$2340 2610-2340= 270 270 + 5 = 54 Peter worked for 54 days.
16	Total shaded area = rectangle + quadrant – unshaded triangle Area of rectangle = 12 x 7 = 84
	Area of quadrant = $\frac{1}{4} \times \frac{22}{7} \times 7 \times 7 = 38.5$
	Total area = 84 + 38.5 = 122.5 Area of unshaded triangle = $\frac{1}{2}$ x 19 x 7
	= 66.5 (a) Total shaded area = 122.5 - 66.5 = <u>56 cm²</u>
	(b) $\frac{1}{4} \times \frac{22}{7} \times 14 + 12 + 7 + (43.5 - 19) = 54.5 \text{ cm}$

No.	Solution	
17	(a) \$1.17 x 32 = <u>\$37.44</u>	
	(b) \$1.17 x 40 = \$46.80	
	\$66.40 - \$46.80 = \$19.60	
	\$19.60 ÷ \$1.40 = 14	
	Amount of water = $14 + 40 = 54 \text{ m}^3$	