

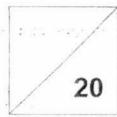
PRIMARY 6 MID-YEAR EXAMINATION 2016

Name :	()	Date: 13 May 2016
Class : Primary 6 ()			Time: 8.00a.m 8.50a.m.
Parent's Signature :			
*			

MATHEMATICS

PAPER 1

(BOOKLET A)

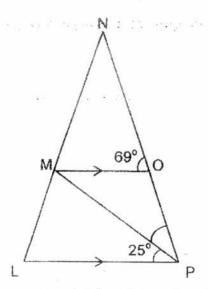


INSTRUCTIONS TO CANDIDATE

- 1. Write your name, class and register number.
- 2. Do not turn over this page until you are told to do so
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Show your working clearly as marks are awarded for correct working.
- 6. You are NOT allowed to use a calculator.

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 correct oval on the Optical Answer Sheet. [20 marks]

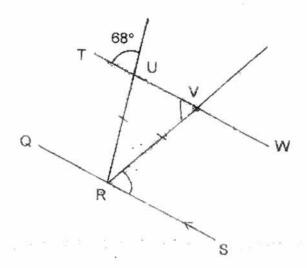
- Round 5.355 to 2 decimal places.
 - (1) 5.30
 - (2) 5.35
 - (3) 5.36
 - (4) 5.40
- 2) Which of the following is the same as 7 050 g?
 - (1) 7 kg 5 g
 - (2) 7 kg 50 g
 - (3) 70 kg 5 g
 - (4) 70 kg 50 g
- LMOP is a trapezium. MO is parallel to LP. Find ∠MPO.



- (1) 25°
- (2) 35°
- (3) 44°
- (4) 86°

4)	Leo	had \$60. He spent \$18 on food. What percentage of his money had he	left?
	(1)	30%	
	(2)	42%	
	(3)	60%	
	(4)	70%	
5)		class of 39 students, 12 are boys. at is the ratio of the number of boys to the number of girls?	
	(1)	4:9	
	(2)	4 : 13	
	(3)	9:4	
	(4)	9 : 13	
6)		e, Betty, Cally and Diane played badminton this morning. Each girl play each other only once. How many games were played altogether?	ed
	(1)	6	
	(2)	8	
	(3)	9	
	(4)	12	
	ű.	© 198 (a) (b) A (b) (a)	
71	ш	PPYHARRYHAPPY	
7)	ПА	APP I HAPR STAPP I	
	Wha	at will be the 100 th letter in the pattern above?	
	(1)	A	
	(2)	Н	
	(3)	P	
	(4)	Υ	

- 8) The average mass of Aaron and Ben is 45 kg. Aaron's mass is 80% of Ben's mass. Find the mass of Ben.
 - (1) 20 kg
 - (2) 25 kg
 - (3) 40 kg
 - (4) 50 kg
- QS is parallel to TW. RU = RV. Find ∠VRS.



- (1) 44°
- (2) 56°
- (3) 68°
- (4) 112°
- 10) 0.5% is the same as _____
 - (1) 0.005
 - (2) 0.05
 - (3) 5
 - (4) 50

- 10 lanterns were hung at equal distance apart in a row. The distance between the first and the fourth lantern is 24 m. What is the distance between the first and the tenth lantern?
 - (1) 54 m
 - (2) 60 m
 - (3) 72 m
 - (4) 80 m
- Madam Ang bought 5 pears and 6 mangoes for \$11.90. A pear cost 40 cents more than a mango. What was the cost of each mango?
 - (1) \$0.90
 - (2) \$1.30
 - (3) \$2.30
 - (4) \$5.75
- 13) Kylie, Linda and Melisa shared a sum of money.

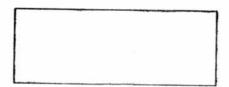
Kylie received $\frac{1}{5}$ of the sum of money.

The ratio of Linda's share to Melisa's share was 3:5.

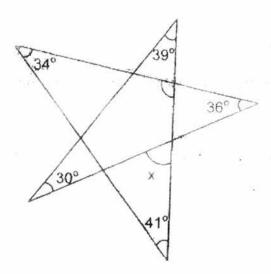
If Kylie received \$80, how much money did Linda receive?

- (1) \$108
- (2) \$120
- (3) \$200
- (4) \$320

14) The area of the rectangle is 24 cm².
What is the possible perimeter of the rectangle?
(The length and breadth are whole numbers.)



- (1) 6 cm
- (2) 11 cm
- (3) 12 cm
- (4) 22 cm
- 15) Find ∠x.



- (1) 69°
- (2) 69.5°
- (3) 70°
- (4) 80°



PRIMARY 6 MID-YEAR EXAMINATION 2016

Name :	()	Date: 13 May	. 2016
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Parent's Signature			
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PAPER 1

(BOOKLET B)

20

INSTRUCTIONS TO CANDIDATE

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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) Express $\frac{55}{1000}$ as a decimal

Ans: _____

17) Find the value of $\frac{4}{5} \div 20$ Give your answer as a fraction in the simplest form.

Ans:

18) What is the value of 3+3+3-3?

Ans: _____

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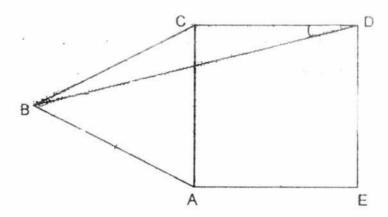
19) Sam's pocket money was increased from \$15 to \$18. Find the percentage increase in his pocket money.

Ans: ______%

20) The volume of a cube is 64 cm³. Find the length of one edge of the cube.

Ans: cm

21) The figure, not drawn to scale, is made up of a square and an equilateral triangle. Calculate ∠ CDB.



Ans: _____

22) The table below shows the number of television sets per flat in a housing estate.

Number of television sets per flat	0	1	2	3
Number of flats	11	45	54	30

How many flats have at least 2 television sets?

23) 12 watches cost \$a. What is the cost of 18 watches in terms of a?

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

24) What is the missing number in the box?

Ans:

25) How many ninths are there in $\frac{7}{3}$?

Ans: _____

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

26) The car park rate is shown below.

First 30 minutes	\$0.65
Every additional 10 minutes or part thereof	\$0.25

Devi parked her car in the car park from 11 a.m. to 11.45 a.m. How much did she have to pay?

Ans:	\$	

For every \$1.50 George put into his piggy bank, his mother put in another 50 cents. When George had a total of \$100 in his piggy bank, what was the amount of money put in by his mother?

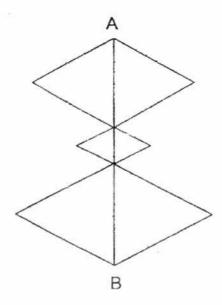
Ans: \$

28) A, B, C, D and E represent five 2-digit numbers.
The average of these 5 numbers is 20.
What number does D represent?

Α	18
В	20
С	22
D	7
E	2

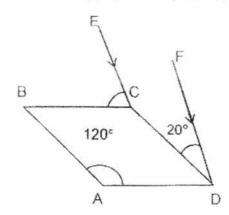
Ans:		
	-	

29) The figure is made up of 3 pairs of aquilateral triangles.
The length of AB is 21 cm. What is the perimeter of the figure?



ns: cm

30) ABCD is a rhombus. EC is parallel to FD. ∠BAD = 120°. ∠CDF = 20°. Find ∠ECB.



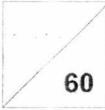
Ans: _____



PRIMARY 6 MID-YEAR EXAMINATION 2016

Name :	_()	Date: <u>13 May 2016</u>
Class : Primary 6 ()		Time: 10.00a.m 11.40a.m.
Parent's Signature		
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MATHEMATICS PAPER 2



INSTRUCTIONS TO CANDIDATE

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- 6. You are allowed to use a calculator.

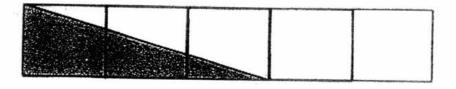
Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

Sally is 9 years old. Her age is $\frac{1}{4}$ of her mother's age now. How old will her mother be in 5 years' time?

Ans: _____years

The figure below is made up of rectangles of the same size. What fraction of the figure is shaded?



Ans: _____

3) Cindy had $\frac{5}{9}l$ of water. She drank $\frac{1}{3}$ of it and kept the rest. How much water was left?

_1	٢
	_1

4) $\frac{2}{5}$ of Lily's savings is equal to $\frac{1}{4}$ of Meiyin's savings.

What fraction of Lily's savings is Meiyin's savings?

Ans:

5) Study the following table carefully.

W	Х	Υ	Z
1	2	3	4
8	7	6	5
9	10	11	12
16	15	14	13

Which column will the number 63 appear in?

Ans:			

For questions 6 to 18, show your working clearly in the space provided for each question 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) Grace has $\frac{1}{3}$ as many 50-cent stamps as 20-cent stamps.

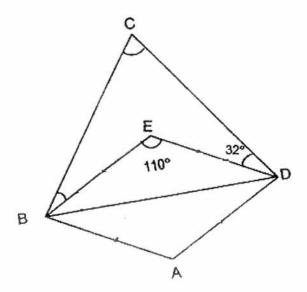
There are 6p more 20-cent stamps than 50-cent stamps.

- (a) Express the number of 20-cent stamps in terms of p.
- (b) How much did she spend on the 20-cent stamps when p = 8? Give your answer in dollars.

Ans:	(a)	 _ [1m
Ans;	(b)	[2m

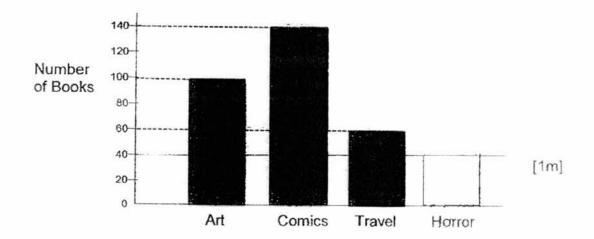
7) The figure, not drawn to scale, is made up of Triangle BCD and Rhombus ABED. ∠ BCD is twice the size of ∠ CBE. Find ∠ CBE.

The William Court of the second of the state of the second of



Α	
Ans:	[3m]

8) The bar graph below shows the number of books sold at a Book Sale.



(a) There were $\frac{2}{3}$ as many Horror books as Travel books sold. **Draw** a bar to represent the number of Horror books sold.

and the control of the Parket of the Control of

(b) On average, each customer bought 4 books and all the books were sold. How many customers were at the Book Sale?

Ans: (b) _____[2m]

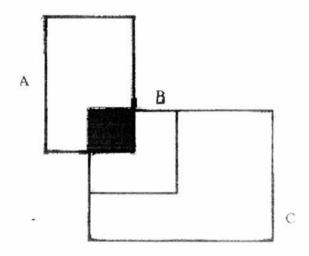
9)	to 3.30 p.m. A	At any one time, while the other	all the three sy children wait	on the three swings vings were occupie ted. If each child id id each child play o	d, one child to had the same
	5			. *	
	V- × 1	with they have		S = 0 0 0 0 0	
ŷs.					
7 I		u Again an gaile		Ans:	[3m]

10) Joy and Tricia shared the total cost of a tablet. Joy paid \$100 less than $\frac{2}{7}$ of the cost of the tablet. Tricia paid \$536.

- (a) How much did the tablet cost?
- (b) How much did Joy pay?

Ans: (a)_		[3m]
	50	
(b)		(1ml

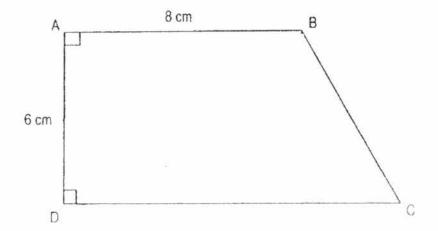
- 11) The figure is made up of a square and two rectangles. The ratio of the area of Rectangle A to the area of Square B to the area of Rectangle C is 3:2:6. $\frac{1}{4}$ of Square B is shaded.
 - (a) What fraction of the figure is not shaded?
 - (b) If the area of Rectangle C is 48 cm², find the area of the figure.



Ans: (a)_	 [2m
(b)_	 [2m]

12)	After Johana joir	rks for a group of pup ned the group, their av 35 marks, how many	erage marks becan	ne 15. at first?	
		(m			er ^e
	ng Palanee	IV . T. A PART D	de exilien		= 10 // (n 30)
		n * 1			
			Ans:	A-144	[3m]

The area of the trapezium is 60 cm². AB = 8 cm and AD = 6 cm.
Find the length of DC.



Ans: _____[3m

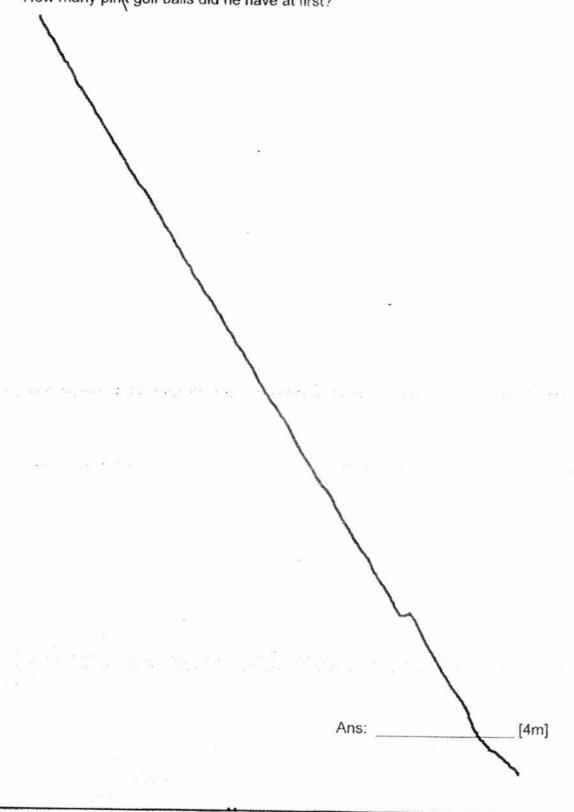
Alex had a total of 69 white and pink golf balls.

He gave away 27 pink golf balls and bought more white golf balls.

The number of white golf balls then increased by 60%.

Finally, he had a total of 72 golf balls.

How many pink golf balls did he have at first?



		- + × 0						
15)	There we	ere equal n	umber o	of male an	d female go	ats at first.		
	7 male o	oats and 13	3 female	anats we	re sold			
	As a resu	uit, the ratio	of the	number of	male to the	female go	ats became	7:5.
	(a) How	many fema	le goats	were left'	?			
	(b) How i	many goats	were t	here at firs	t?			
		, ,						
					*			
		No.				3.8		
					sana juga			101111111111111111111111111111111111111
•	1.0							
81								
					An	0: (0)		ro
					An	s. (a)		[3m]
						(b)		[2m]

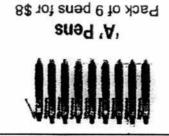
16)	Joy and Eton shared some books. Joy's share was 30 less than Eton's share. After Eton gave $\frac{1}{3}$ of his share to Joy, Joy had 12 more than Eton. How many books did Joy have at first?
	žias:
	ా అన్న సైక్స్ కెక్క కృష్ణంకల్ల కృష్ణంతో ఇం ఇద్ది అత్తుక్తున్ని అ
	Ancy [5m]
	Ans:[5m]

(a)

(1) A bookshop sold two types of pens in packs at the prices shown below.



Pack of 3 pens for \$5

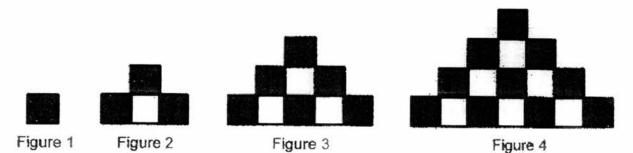


(a) Adelyn spent a total of \$26 on some 'A' pens and 'Q' pens. How many more 'A' pens did she buy?

(b) The bookshop sold 360 pens last week.
The number of 'A' pens sold was 3 times the number of 'Q' pens sold.

[m S]	(p)
[m &]	(s) :anA

18) The diagram below shows 4 figures formed by shaded and unshaded squares.



(a) Complete the table below. [2]
(b) Find the total number of squares in Figure 13 [1]

(c) How many shaded squares are there in Figure 31? [2]

Figure	Total number of squares	Total number of shaded squares
1	1	1
2	4	3
3	9	6
4	16	10
5	[A1]	IA1

Ans:	(b)	[1m]
Ans:	(c)	[2m]

EXAM PAPER 2016

SCHOOL: TAO NAN

SUBJECT: MATHEMATICS

TERM:SA1

ORDER CALL:

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

16)0.055

17)1/25

18)1

19)20%

20)4cm

21)15°

22)84

23)\$(1.5a)

24)18

25)21

26)\$1.15

27)\$25

28)17

29)84cm

30)80°

Paper 2

$$1)9 \times 4 = 36$$

2)
$$\frac{1}{2}$$
 x $\frac{3}{5}$ = $\frac{3}{10}$

$$36 + 5 = 41$$

3/10 of the figure is shaded.

She will be 41 years old.

$$3)3/3 - 1/3 = 2/3$$
 (left)

$$2/3 \times 5/9L = 10/27L$$

10/27L of water was left.

$$\frac{1}{4}$$
 x2 = 2/8

Lily

8/5 of Lily's savings is Meiling savings.

5)63
$$\div$$
8 = 7 R7

In column X.

6)a)(6p
$$\div$$
 2) x 3 = 9p

b)
$$6p = 8 \times 6 = 48$$

$$3p = 48 \div 2 = 24$$

$$9p = 24 \times 3 = 72$$

- a)There are 9p 20-cent stamps.
- b) She spent \$14.40 on the 20-cent stamps.

7)
$$\angle$$
 EDB = (180° - 100°) \div 2 = 35°

$$\angle$$
CBE + \angle BCD = 180° - 35° - 35° - 32° = 78°

$$\angle$$
 CBE = 78° \div 3 = 26°

$$\angle$$
 CBE is 26 $^{\circ}$

$$8)a)2/3 \times 60/1 = 40$$

b)Total no.of books
$$\rightarrow$$
 100 + 140 + 60 + 40 = 340

$$340 \div 4 = 85$$

There were 85 customers.

9)210 mins
$$\div$$
 7 = 30 mins

$$30 \text{ mins } \times 3 = 90 \text{ mins}$$

10)a)5
$$\times$$
 = \$536 - \$100 = \$436

$$7 \times = (\$436 \div 5) \times 7 = \$610.40$$

b)2
$$\times$$
 = (\$610.40 \div 7) x 2 = \$174.40

- a)The tablet cost \$610.40
- b)Joy paid \$74.40

17 units =
$$(48 \text{cm}_2 \div 12) \times 17 = 68 \text{cm}_2$$

12)Of there are 10 pupils at first

$$130 + 35 = 165$$

$$165 \div 11 = 15$$

There were 10 pupils at first.

$$60cm_2 - 48cm_2 = 12cm_2$$

$$6\text{cm} \div 2 = 3\text{ cm}$$

$$12cm_2 \div 3cm = 4cm$$

$$4cm + 8cm = 12cm$$

The length of DC is 12cm.

14)free point

$$15)a)7$$
 units + 7 = 5 units + 13

$$2 \text{ units} = 13 - 7 = 6$$

5 units =
$$(6 \div 2) \times 5 = 15$$

b)12 units =
$$(15 \div 5) \times 12 = 36$$

$$36 + 20 = 56$$

- a)15 female goats were left.
- b)There were 56 goats at first.

$$2 \text{ units} = 32 - 10 = 22$$

3 units =
$$(22 \div 2) \times 3 = 33$$

Joy had 33 books at first.

$$17)a)($5x2) + ($8x2) = $26$$

$$(9x2) - (3x2) = 12$$

b)(360
$$\div$$
4) \div 3 = 30

$$30 \times $5 = $150$$

- a)She bought 12 more 'A' pens.
- b)\$150 was collected from the sale of 'Q' pens.

$$b)132 = 169$$

$$16 \times 31 = 496$$

- b)There are 169 squares.
- c)There are 496 shaded squares.



HENRY PARK PRIMARY SCHOOL 2016 SEMESTRAL EXAMINATION 1 MATHEMATICS PRIMARY 6

PAPER 1 (BOOKLET A)

Name:	English Adapt To Life
Class: Primary 6	

Marks: Paper 1 Booklet A 20 Booklet B 20 Paper 2 60 Total 100

Total Time for Booklets A and B: 50 min

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

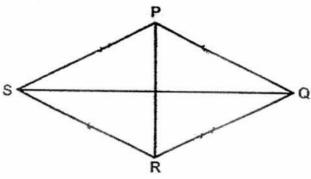
Answer all questions.

Shade your answers in the Optical Answer Sheet (OAS) provided. You are not allowed to use a calculator.

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 and shade your answer (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

Whi	ch digit in 8	5.96 is in th	e tenths pla	ace?				
(1)	5							
(2)	6							
(3)	8							
(4)	9						()
Arra	nge the foll	owing from	the largest	to the	smallest:			
	1.205,	5 / ₄ ,	1.2					
(1)	5/4	1.205,	1.2			**		
(2)	5/4	1.2,	1.205			*1		
(3)	1.205,	1.2,	5 4		- F/1 E			
(4)	1.2.	$\frac{5}{4}$,	1.205				()
	ch one of the	ne following ssroom?	is the mos	t likely l	ength of t	the whitebo	ard on	the
(1)	3000 cm	1						
(2)	300 cm							
(3)	30 cm		845 J.					
(4)	3 cm		31				- ()

4 In the figure below, PQRS is a rhombus. Which two lines are parallel to each other?

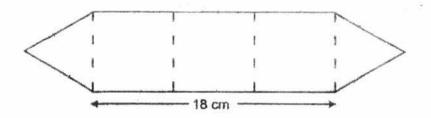


- (1) PQ and PR
- (2) PR and QS
- (3) QS and RS
- (4) RS and QP

Megan has some blue, red and yellow beads. 1/5 of the beads are blue.
The ratio of the number of blue beads to the number of red beads is 2 : 3.
What fraction of Megan's beads is red?

- (1) $\frac{1}{2}$
- (2) $\frac{1}{5}$
- (3) $\frac{3}{5}$
- (4) $\frac{3}{10}$

- Alex is t years old. Bob is 2 times as old as Alex. Calvin is 3 years younger than Bob. How old will Calvin be in 8 years' time?
 - (1) (2t-5) years
 - (2) (2t + 5) years
 - (3) (2t-11) years
 - (4) (2t + 11) years
- 7 The ratio of the length of a rectangle to its breadth is 3:2. The perimeter of the rectangle is 40 cm. What is the length of the rectangle?
 - (1) 8 cm
 - (2) 12 cm
 - (3) 16 cm
 - (4) 24 cm
- 8 The figure below is made up of 2 identical equilateral triangles and 3 identical squares. Find the perimeter of the figure.

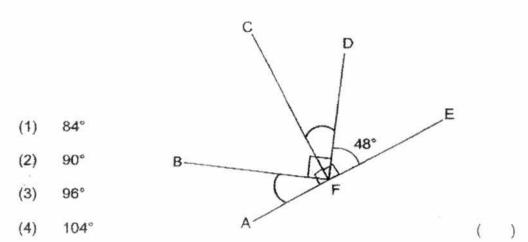


- (1) 30 cm
- (2) 54 cm
- (3) 60 cm
- (4) 84 cm

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9 ∠BFD and ∠CFE are right angles and AFE is a straight line. Find the sum of ∠CFD and ∠AFB.

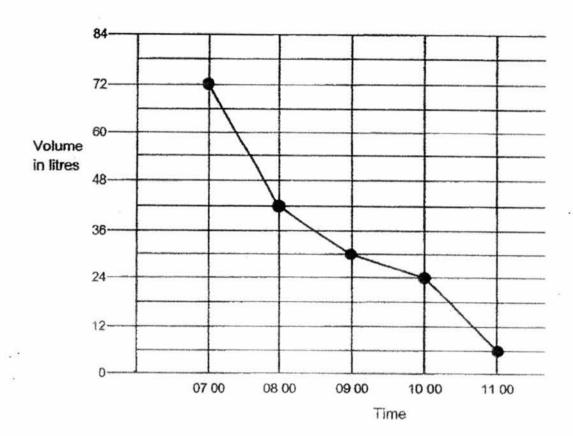


- The sum of four numbers is 1020. One of the numbers is 150. What is the average of the other three numbers?
 - (1) 105
 - (2) 255
 - (3) 290
 - (4) 390
- At first, Jamal had \$192 and Ken had \$84. Ken gave some of his money to Jamal. In the end, Jamal had three times as much money as Ken. How much money did Ken have in the end?
 - (1) \$15
 - (2) \$20
 - (3) \$54
 - (4) \$69

(Go on to the next page)

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A tank was filled with some water at 07 00. Water flowed out of the tank from 07 00 to 11 00. The line graph shows the amount of water in the tank from 07 00 to 11 00.



What was the average decrease in the volume of water from 07 00 to 11 00?

- (1) 13.2 litres per hour
- (2) 14.4 litres per hour
- (3) 16.5 litres per hour
- (4) 18 litres per hour

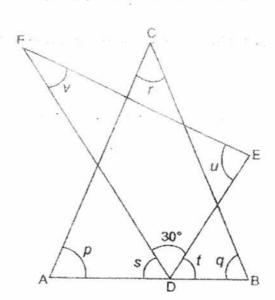
(Go on to the next page)

The table below shows the number of hours a group of students spent playing computer games in a particular week.

Number of hours	Number of students
0	3
1	13
2	16
3	9
4	1

What was the total number of hours these students spent playing computer games in that particular week?

- (1) 10
- (2) 42
- (3) 76
- (4) 79
- In the figure below, ABC and DEF are two overlapping triangles and ADB is a straight line. What is the value of $\angle p + \angle q + \angle r + \angle s + \angle t + \angle u + \angle v$?



- (1) 330°
- (2) 480°
- (3) 510°
- (4) 540°

(Go on to the next page)

15	A printer takes 50 minutes to print a total of 1200 identical black-and-white
	posters and 500 identical coloured posters. The same printer takes
	one hour to print 2400 such black-and-white posters. How many such
	coloured posters can the same printer print in one hour?

- (1) 2040
- (2) 1500
- (3) 1000
- (4) 800

(Go on to Booklet B)