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Index No. _____ – _____

MINISTRY OF EDUCATION, SINGAPORE
PRIMARY SCHOOL LEAVING EXAMINATION

0008/1 (A)

PSLE
29 SEPTEMBER 2017

MATHEMATICS
PAPER 1
(BOOKLET A)

Additional materials: Optical Answer Sheet (OAS)

Total Time for Booklets A and B : 50 min

INSTRUCTIONS TO CANDIDATES

1. Write your Index No. in the boxes at the top right hand corner.
2. Do not turn over this 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.

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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 Which of the following numbers is the smallest?

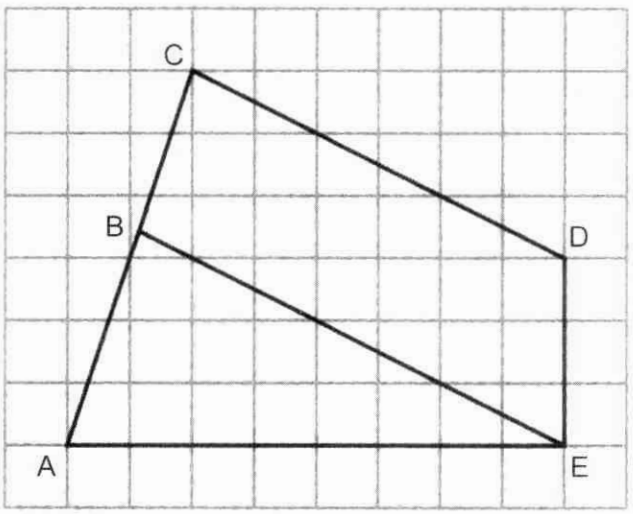
(1) 0.054

(2) 0.504

(3) 0.045

(4) 0.405

2 Which two lines are perpendicular to each other?



(1) AB and BE

(2) AE and DE

(3) BC and DE

(4) BE and CD

3 How much water is in the container shown?

(1) 150 ml

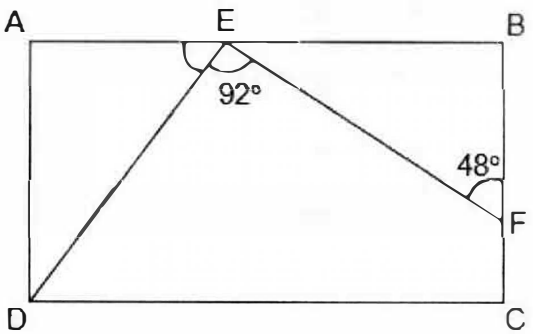
(2) 200 ml

(3) 250 ml

(4) 300 ml

4 In the figure, ABCD is a rectangle. AEB and BFC are straight lines. ∠DEF = 92° and ∠BFE = 48°.

Find ∠AED.



(1) 42°

(2) 44°

(3) 45°

(4) 46°

5 $30 + \frac{3}{10} + \frac{3}{100} =$ _____.

(1) 33.03

(2) 30.33

(3) 30.033

(4) 30.303

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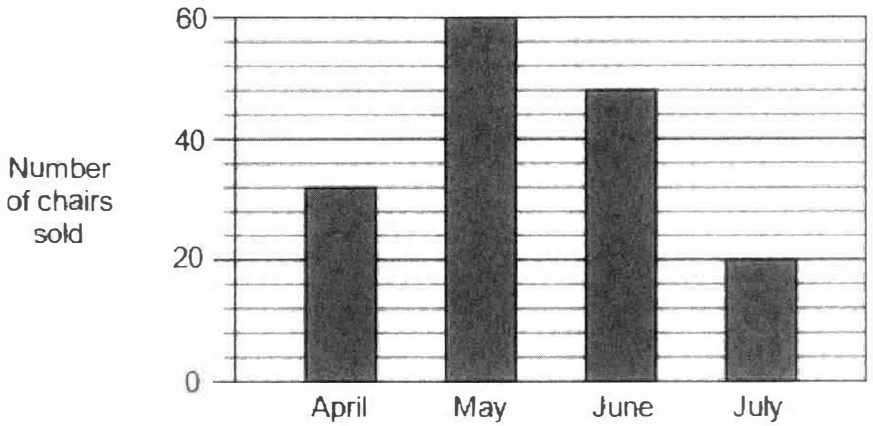
Use the information below to answer Questions **6** *and* **7**.

The graph shows the number of chairs sold by a shop from April to July.



6 How many chairs did the shop sell in April?

(1) 23

(2) 26

(3) 30

(4) 32

7 The number of chairs sold in August was an 80% increase from the number sold in July. How many chairs were sold in August?

(1) 16

(2) 24

(3) 25

(4) 36

8 Chandra paid $10 for 20 erasers. How much did each eraser cost?

(1) 5¢

(2) 2¢

(3) 50¢

(4) 20¢

9 Arrange the following from the heaviest to the lightest.

4.25 kg	4 kg 55 g	$4\frac{1}{3}$ kg

	Heaviest			Lightest
(1)	$4\frac{1}{3}$ kg	, 4.25 kg	,	4 kg 55 g
(2)	$4\frac{1}{3}$ kg	, 4 kg 55 g	,	4.25 kg
(3)	4.25 kg	, $4\frac{1}{3}$ kg	,	4 kg 55 g
(4)	4 kg 55 g	, 4.25 kg	,	$4\frac{1}{3}$ kg

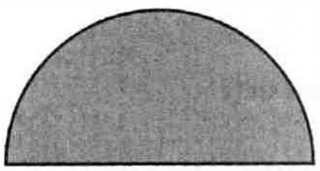
10 The shaded figure is a semicircle of diameter 20 cm.
What is the perimeter of the shaded figure? Take $\pi = 3.14$

(1) 31.4 cm

(2) 51.4 cm

(3) 62.8 cm

(4) 82.8 cm



20 cm

11 Devi has tiles in the shape of rhombuses of sides 3 cm. She placed them in a row to form a parallelogram of perimeter 186 cm.

How many tiles did Devi use?

(1) 30

(2) 31

(3) 60

(4) 62

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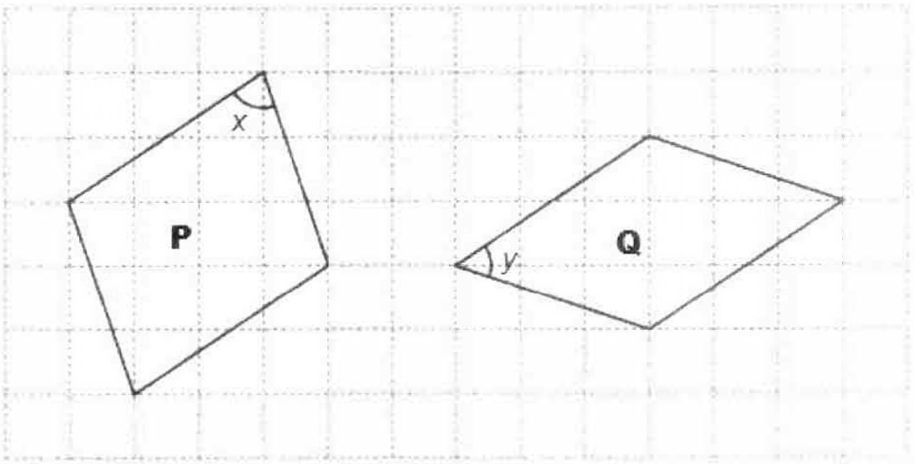
12 Two figures P and Q are shown in the square grid below.



Which of the following statement(s) is/are **true**?

A. $\angle x = \angle y$.

B. Figure P has the same area as Figure Q.

C. Figure P has the same perimeter as Figure Q.

(1) A only

(2) C only

(3) A and B only

(4) B and C only

13 Jack and Kira started their walk around a 6-km track at 8.00 a.m. They started at the same point but went in opposite directions. Jack's walking speed was 5 km/h and Kira's was 4 km/h. They did not change their speeds throughout.

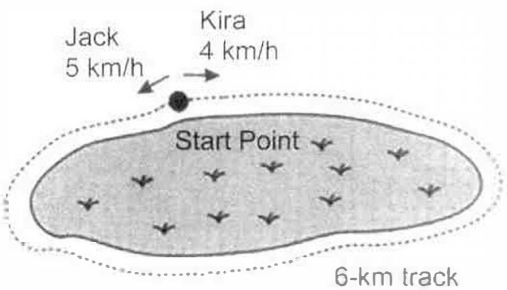
At what time did they first pass each other?

(1) 8.40 a.m.

(2) 9.30 a.m.

(3) 10.40 a.m.

(4) 11.20 a.m.



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14 Aishah has 3 empty containers P, Q and R. She poured an equal amount of water into each of them. After that, $\frac{1}{2}$ of P was filled with water, $\frac{1}{4}$ of Q was filled with water and $\frac{2}{3}$ of R was filled with water.
What is the ratio of the capacity of container P to container Q to container R?

(1) 1 : 1 : 2

(2) 2 : 4 : 3

(3) 4 : 8 : 3

(4) 6 : 3 : 8

15 Mr Wong used $\frac{3}{7}$ of his money to buy 6 apples and 10 pears. The cost of 3 apples was the same as that of 2 pears. What was the most number of pears that Mr Wong could buy with the money he had left?

(1) 14

(2) 16

(3) 18

(4) 20

(Go on to Booklet B)

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MINISTRY OF EDUCATION, SINGAPORE
PRIMARY SCHOOL LEAVING EXAMINATION

0008/1 (B)

PSLE
29 SEPTEMBER 2017

MATHEMATICS
PAPER 1
(BOOKLET B)

Total Time for Booklets A and B : 50 min

INSTRUCTIONS TO CANDIDATES

1. Write your Index No. in the boxes at the top right hand corner.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write your answers in this booklet.
6. The use of calculators is **NOT** allowed.

FOR MARKERS' USE

Question No.	Marker ID	
	Marker 1	Marker 2
16 – 19		
20 – 22		
23 – 25		
26 – 27		
28 – 29		
30		

FOR CSM / SM / ASM's USE

Supervisor ID / Signature

FOR RECORDER'S USE

Total Mark	Max Mark	Recorder ID / Signature
	20	

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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)

Do not write in this space

16 Write ten thousand and twelve in numerals.

Ans: _____

17 Find the value of $\frac{1}{6} + \frac{2}{9}$

Ans: _____

18 Find the value of 10.1 – 7.43

Ans: _____

19 Find the value of $6 \div \frac{2}{5}$

Ans: _____

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20 Find the value of 0.27×30

Do not write in this space

Ans: _____

21 Write down the common multiple of 6 and 10 that is smaller than 50.

Ans: _____

22 Measure and write down the length of AB.

Ans: _____ cm

(Go on to the next page)

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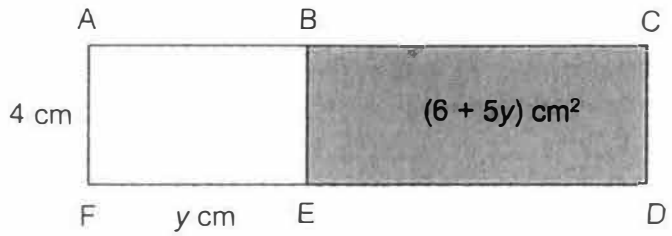
23 The figure is made up of two rectangles ABEF and BCDE. AF = 4 cm, FE = y cm and the area of BCDE is $(6 + 5y)$ cm^2.

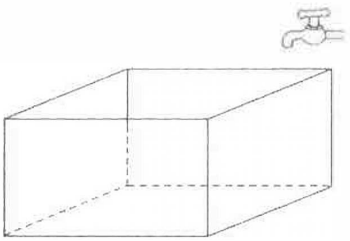
Do not write in this space



Find the area of ACDF in terms of y. Give your answer in the simplest form.

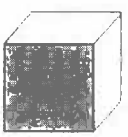
Ans: _____ cm^2

24 It takes 100 minutes to fill a tank. What fraction of the tank will be filled in 1 hour? Give your answer in the simplest form.



Ans: _____

25 The volume of a cube is 27 cm^3.
Find the perimeter of one face of the cube.



Ans: _____ cm

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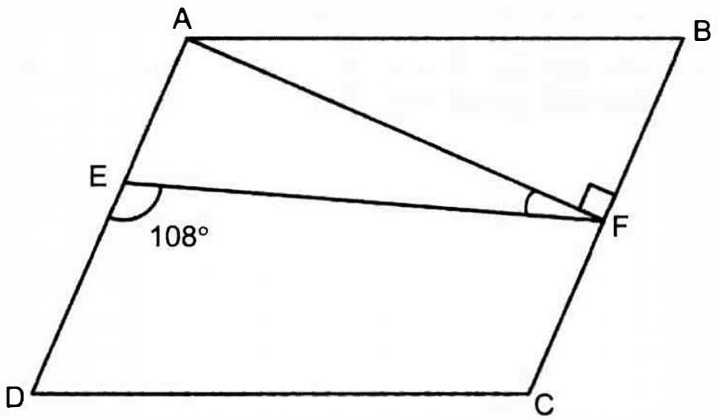
Questions **26** to **30** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space

26 Find the value of 2 ÷ 7. Give your answer correct to 2 decimal places.

Ans: _____

27 ABCD is a parallelogram. AED and BFC are straight lines. ∠DEF = 108° and ∠BFA is a right angle. Find ∠AFE.



Ans: _____ °

(Go on to the next page)

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Do not write in this space

28 A box contains red, blue and yellow beads. $\frac{1}{4}$ of the beads are red. $\frac{2}{9}$ of the remaining beads are blue. What fraction of the beads in the box are yellow?

Ans: _____

29 Two numbers add up to 415. If one of them is a 2-digit number and the other is a 3-digit number, what is the smallest possible difference between the two numbers?

Ans: _____

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30 Four classes A, B, C and D raised money for a charity. Classes A and B raised a total of $108. Together, classes B, C and D raised a total of $180. The total amount of money raised by all 4 classes is 5 times the amount that class B raised.

How much money did class B raise?

Do not write in this space

Ans: $ _____

End of Paper

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MINISTRY OF EDUCATION, SINGAPORE
PRIMARY SCHOOL LEAVING EXAMINATION

0008/2

PSLE
29 SEPTEMBER 2017

MATHEMATICS
PAPER 2

Time: 1 h 40 min

INSTRUCTIONS TO CANDIDATES

1. Write your Index No. in the boxes at the top right hand corner.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write your answers in this booklet.
6. The use of an approved calculator is expected, where appropriate.

FOR MARKERS' USE

Question No.	Marker ID	
	Marker 1	Marker 2
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		

FOR CSM / SM / ASM's USE

Supervisor ID / Signature

FOR RECORDER'S USE

Total Mark	Max Mark	Recorder ID / Signature
	60	

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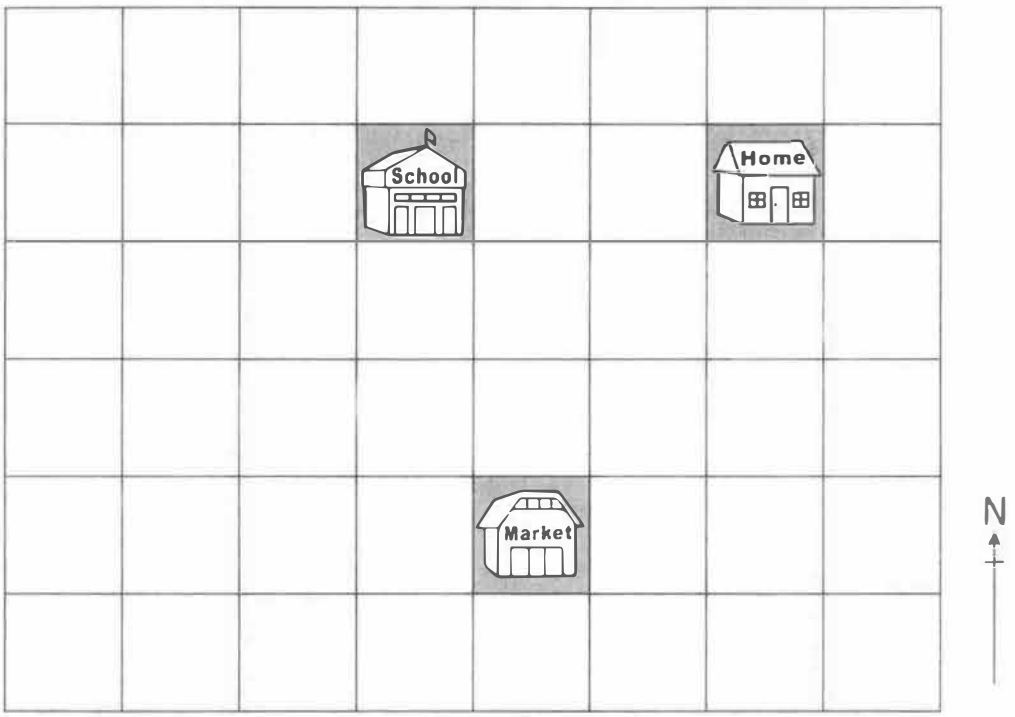
Questions **1** to **5** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space

1 Chan's home, his school and the market are located as shown in the square grid below.



(a) In what direction is Chan's school from his home?

(b) A new library will be built at a location south-west of the school and north-west of the market. Put a tick (✓) in the square where the new library will be built.

Ans: (a) _____

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2 Some teachers and pupils from Victory Primary School went on a field trip. There were 2 teachers in each group of 15 pupils. There were 52 more pupils than teachers.

How many pupils went on the field trip?

Do not write in this space

Ans: _____

3 Mrs Lee had a bottle of orange juice. She drank 600 ml of the juice in the morning and $\frac{1}{6}$ of the remaining juice in the afternoon. After that, there was $\frac{1}{2}$ a bottle of juice left. How much of the juice did she drink in the afternoon?

Ans: _____ ml

(Go on to the next page)

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4 When Latif started cycling from his home, Kelly was 90 m ahead. Latif's cycling speed was 5 m/s and Kelly's jogging speed was 1 m/s. They went in the same direction and did not change their speeds throughout.

What distance would Latif have cycled when he caught up with Kelly?

Do not write in this space

Ans: _____ m

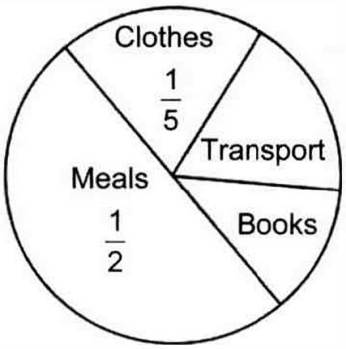
5 A group of 5 boys booked a badminton court for 2 hours and took turns to play. At any time, there were 4 boys playing on the court. On average, how long did each boy play on the court? Give your answer in hours and minutes.

Ans: _____ h _____ min

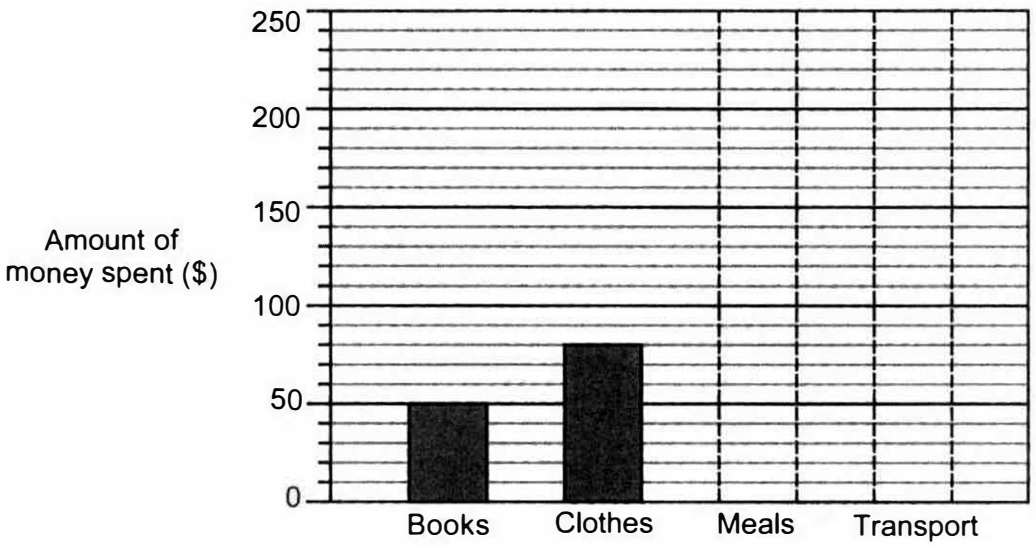
For questions **6** to **18**, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

Do not write in this space

6 The pie chart below shows how Sue spent her money.



The amount of money spent is also represented by the bar graph below. The bars for the amount of money spent on Meals and Transport have not been drawn.



[3]

(a) What percentage of her money did Sue spend on Clothes?

(b) What fraction of her money did Sue spend on Books? Express your answer in the simplest form.

(c) Draw the bars for the amount of money spent on Meals and Transport in the graph above.

Ans: (a) _____ [1]

(b) _____ [1]

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7 The table shows the number of cans collected by 3 boys for recycling.

Do not write in this space

Names	Number of Cans
Raj	6
Sam	k
Talib	$3 + 4k$

(a) Find the total number of cans Raj, Sam and Talib collected. Express your answer in terms of k in the simplest form.

(b) If $k = 9$, find the average number of cans the 3 boys collected.

Ans: (a) _____ [1]

(b) _____ [2]

8 The first 15 numbers of a number pattern are given below.

$\underset{1^{st}}{4}, 0, 1, 2, 4, 0, 1, 2, 4, 0, 1, 2, 4, 0, \underset{15^{th}}{1}, \ldots$

(a) What is the 626^{th} number?

(b) What is the sum of the first 627 numbers?

Ans: (a) _____ [1]

(b) _____ [2]

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9 At first, Ping had 60 textbooks and some storybooks. After she gave away 10 textbooks and 20% of the storybooks, she had a total of 118 books left.

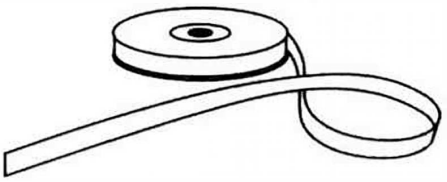
How many storybooks did Ping have at first?

Do not write in this space

Ans: _____ [3]

10 Jess needs 200 pieces of ribbons, each of length 110 cm, to decorate a room for a party. Ribbon is sold in rolls of 25 m each.

What is the least number of rolls of ribbon that Jess needs to buy?



Ans: _____ [3]

(Go on to the next page)

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11 The figure below shows a right-angled triangle, ABC drawn on a grid.

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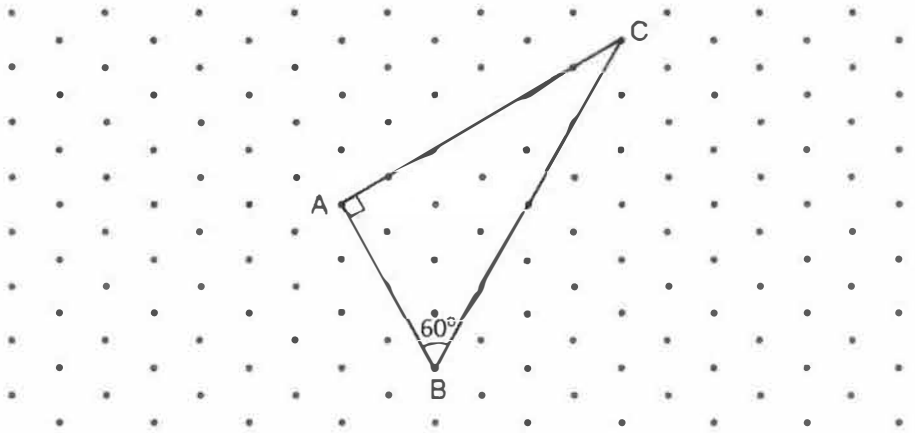

[2]

(a) ABX is a right-angled triangle with the same area as triangle ABC. Draw ABX on the grid above such that ABX does not overlap with ABC.

(b) BCY is an equilateral triangle. Draw BCY on the grid such that it does not overlap with triangle ABC.

(c) Find the ratio of the area of triangle ABX to the area of triangle BCY.

Ans: (c) _____ [1]

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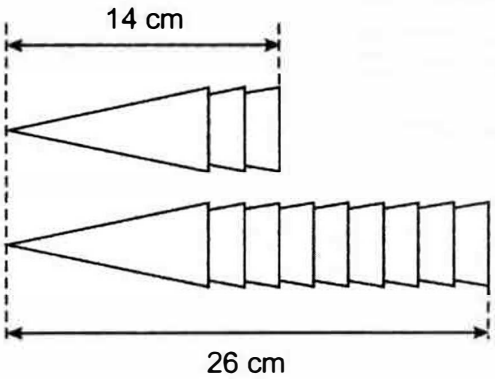
12 The figure shows two stacks of identical ice cream cones. There are 3 cones in the shorter stack and 9 cones in the longer one.

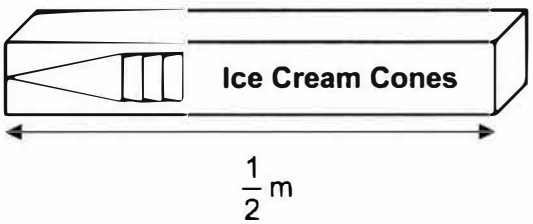
Do not write in this space

The length of the shorter stack is 14 cm and the length of the longer stack is 26 cm.



Ali wants to pack the ice cream cones as a single stack into a box $\frac{1}{2}$ m long.

What is the most number of cones he can pack into the box?



Ans: _____ [3]

(Go on to the next page)

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13 Gopal and Henry were paid a total of $3850 for a job they did. Gopal was paid $2030 more than Henry.

Do not write in this space

(a) How much was Gopal paid for the job?

(b) Gopal and Henry were paid based on the number of days they worked.
Gopal worked 3 times as many days as Henry.
Gopal was paid $5 more than Henry per day.

How many days did Gopal work?

Ans: (a) _____ [1]

(b) _____ [3]

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14 Lina wanted to buy a bag. She saw a red bag on sale at 15% discount and a blue bag at 20% discount. Both bags had the same original price before the discounts.

To buy the red bag, Lina would need $2.50 more than what she had. So Lina bought the blue bag. After that, she had $2 left.

(a) What was the original price of the red bag?

(b) How much money did Lina have at first?

Do not write in this space

Ans: (a) _____ [2]

(b) _____ [2]

(Go on to the next page)

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15 At a walkathon, each participant completed either a 3-km route, a 5-km route or an 8-km route. $\frac{1}{4}$ of the participants completed the 3-km route, $\frac{9}{20}$ of the participants completed the 5-km route and the rest completed the 8-km route.

For every 1 km a participant walked, \$4 was donated to charity. A total of \$8208 was donated to charity.

(a) What is the ratio of the number of participants who completed the 3-km route to the number who completed the 5-km route to the number who completed the 8-km route?

(b) What is the total number of participants at the walkathon?

Do not write in this space

Ans: (a) _____ [1]

(b) _____ [3]

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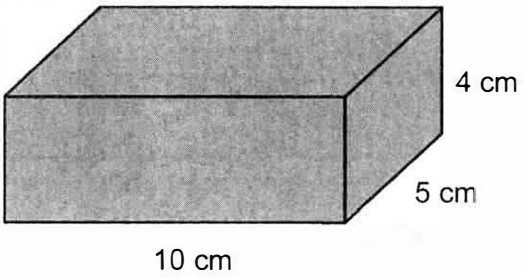
16 Ravi had a rectangular block of wood 10 cm by 5 cm by 4 cm.
He painted all the faces of the block.

Do not write in this space



(a) What is the total painted area?

(b) Ravi cut the block into 1-cm cubes.
How many of these cubes have

(i) none of the faces painted?

(ii) 2 of the faces painted?

Ans: (a) _____ [2]

(b)(i) _____ [1]

(ii) _____ [2]

(Go on to the next page)

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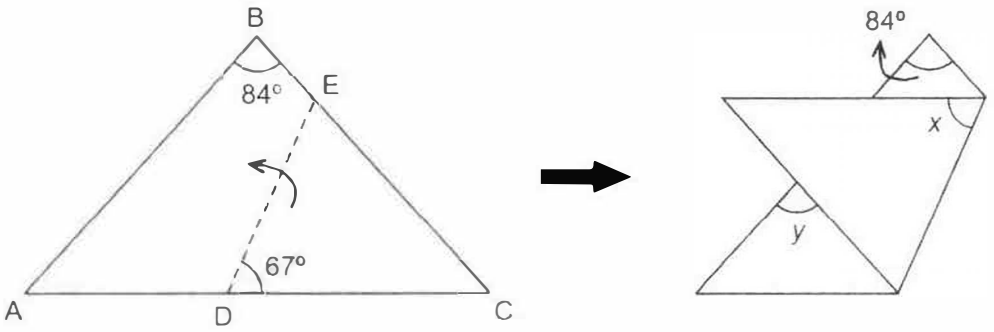
17 Minah has a triangular piece of paper ABC with BA = BC, ∠ABC = 84° and ∠CDE = 67°. ADC and BEC are straight lines. She folded it along the line DE as shown below.

Do not write in this space



Before folding

After folding

(a) Find ∠x.

(b) Find ∠y.

Ans: (a) _____ [2]

(b) _____ [3]

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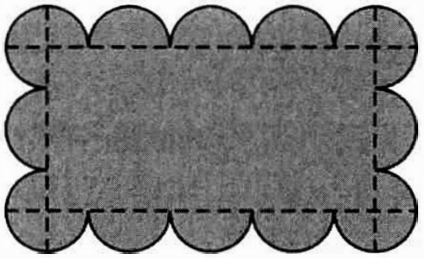
18 The figure below is made up of a rectangle, semicircles and quarter circles. The area of the rectangle is 288 cm^2.

Do not write in this space



(a) Find the perimeter of the rectangle.

(b) Find the area of the figure.
Take $\pi = \frac{22}{7}$.

Ans: (a) _____ [3]

(b) _____ [2]

End of Paper

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