



NANYANG PRIMARY SCHOOL

**END-OF-YEAR EXAMINATION
2020**

PRIMARY 5

**MATHEMATICS
PAPER 1
(BOOKLET A)**

Total Duration for Booklets A and B: 1 hour

Additional materials: Optical Answer Sheet (OAS)

INSTRUCTIONS TO PUPILS

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

Name: _____ ()

Class: Primary 5 ()

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 In the number 57.86, which digit is in the tenths place?

(1) 5

(2) 6

(3) 7

(4) 8

2 Which of the following is the same as 30 kg 20 g?

(1) 3020 g

(2) 3200 g

(3) 30 020 g

(4) 30 200 g

- 3 There were 2100 men, 2800 women and 1100 children in a race. What is the ratio of the number of children to the number of women to the number of men? Express your answer in its simplest form.
-

(1) 11 : 28 : 21

(2) 11 : 21 : 28

(3) 21 : 28 : 11

(4) 28 : 21 : 11

- 4 Jane paid \$5 for 25 paper clips. How much did each paper clip cost?

(1) 5¢

(2) 2¢

(3) 20¢

(4) 50¢

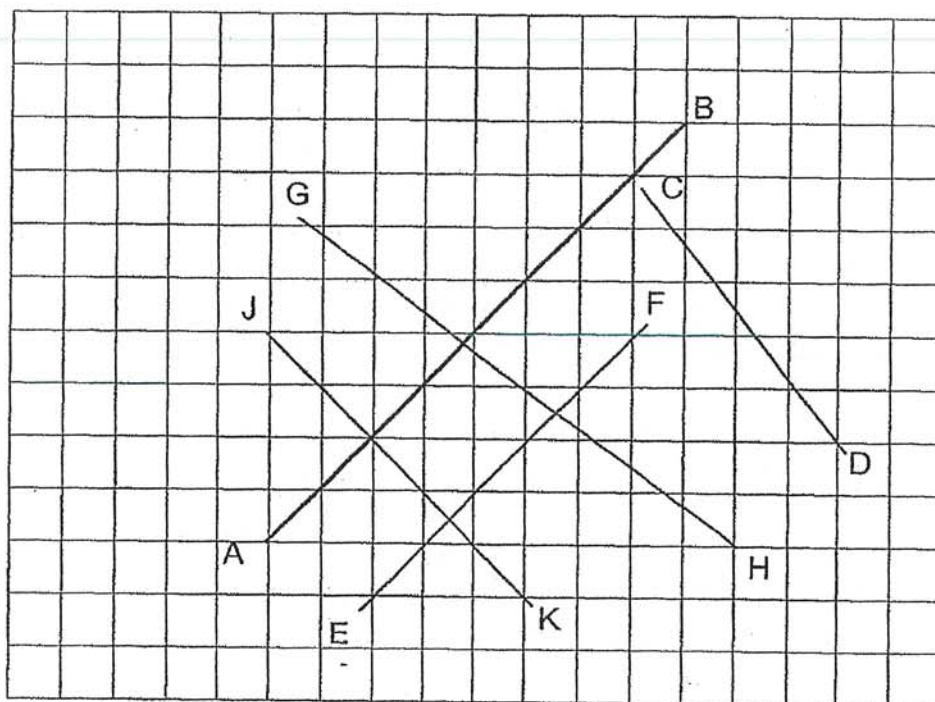
- 5 There were 200 ribbons in a box. 40 of them were red. What percentage of the ribbons were red?

- (1) 5%
- (2) 20%
- (3) 40%
- (4) 80%

- 6 Empress Primary School has 900 pupils. 25% of the pupils walk to school. How many pupils walk to school?

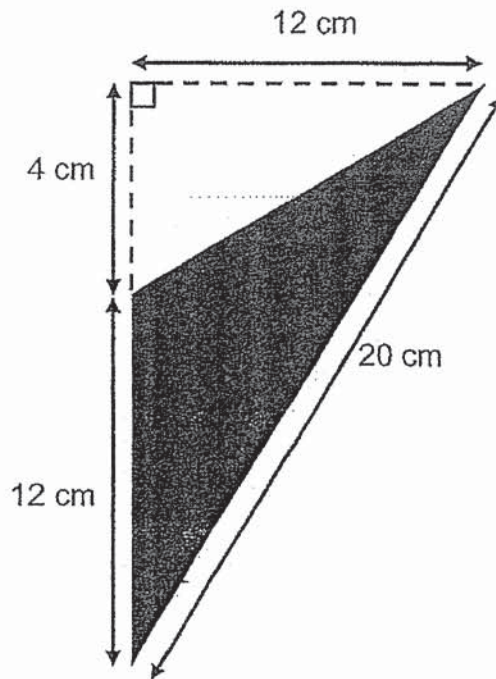
- (1) 36
- (2) 185
- (3) 225
- (4) 675

- 7 Which line in the square grid is perpendicular to AB?



- (1) CD
- (2) EF
- (3) GH
- (4) JK

- 8 Find the area of the shaded triangle below.

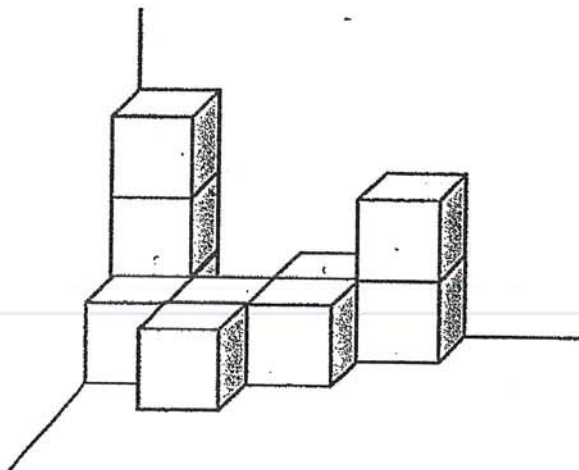


- (1) 72 cm^2
- (2) 96 cm^2
- (3) 120 cm^2
- (4) 144 cm^2

9 Which one of the following is an equivalent ratio of 16 : 4?

- (1) $4 : 16$
- (2) $8 : 2$
- (3) $14 : 2$
- (4) $25 : 5$

10 The solid below is made up of 1-cm cubes. What is its volume?



- (1) 9 cm^3
- (2) 10 cm^3
- (3) 11 cm^3
- (4) 12 cm^3

- 11 Arrange the following fractions from the greatest to the smallest.

$$\frac{2}{3}, \quad \frac{5}{12}, \quad \frac{1}{4}, \quad \frac{5}{6}$$

Greatest

Smallest

(1) $\frac{5}{12}, \frac{5}{6}, \frac{2}{3}, \frac{1}{4}$

(2) $\frac{2}{3}, \frac{1}{4}, \frac{5}{6}, \frac{5}{12}$

(3) $\frac{1}{4}, \frac{5}{12}, \frac{2}{3}, \frac{5}{6}$

(4) $\frac{5}{6}, \frac{2}{3}, \frac{5}{12}, \frac{1}{4}$

- 12 The average of the 4 numbers shown below is 16. What is the missing number?

18

19

13

?

(1) 14

(2) 16

(3) 50

(4) 64

- 13 A machine printed 616 200 books in 200 days. The machine printed an equal number of books each day. How many books did the machine print each day?
-

- (1) 381
- (2) 616
- (3) 3081
- (4) 6162

- 14 Thana had 72 sweets. She gave $\frac{2}{9}$ of her sweets to Tarita. How many sweets had Thana left?

- (1) 8
- (2) 16
- (3) 56
- (4) 70

- 15 Johnny had 6.4 kg of sugar. He packed all the sugar into 400 packets equally. How much sugar was there in each packet?

(1) 0.016 kg

(2) 0.064 kg

(3) 0.16 kg

(4) 0.64 kg



NANYANG PRIMARY SCHOOL

**END-OF-YEAR EXAMINATION
2020**

PRIMARY 5

**MATHEMATICS
PAPER 1
(BOOKLET B)**

Total Duration for Booklets A and B: 1 hour

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Write your answers in this booklet.
5. The use of calculators is **NOT** allowed.

Name: _____ ()

Class: Primary 5 ()

Booklet B

/ 25

Please sign and return the examination paper the next day. Any queries should be raised at the same time when returning paper.

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

16 Find the value of $36 - 4 \times (2 + 4) \div 3$.

Ans: _____

17 A wire was 25 cm long. It was cut into 4 equal pieces. Find the length of each piece of wire. Express your answer as a decimal.

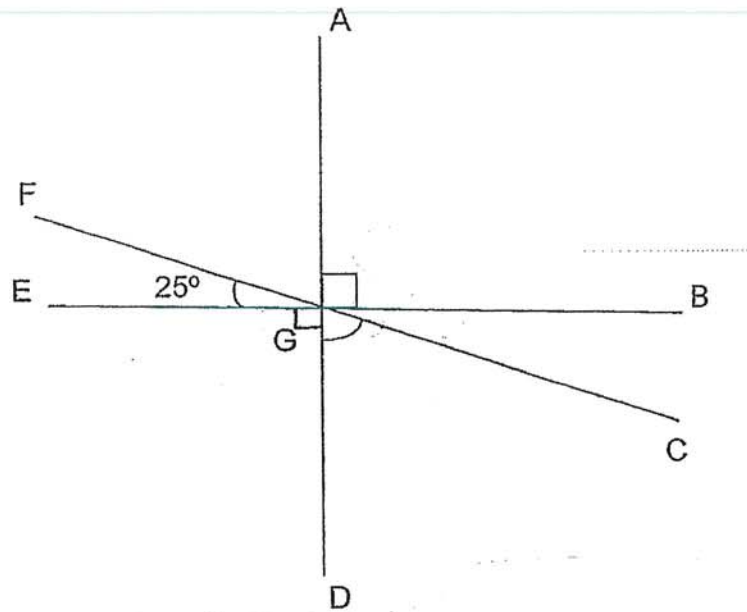
Ans: _____ cm

18 What is the missing number in the box?

$$\boxed{?} : 8 = 27 : 24$$

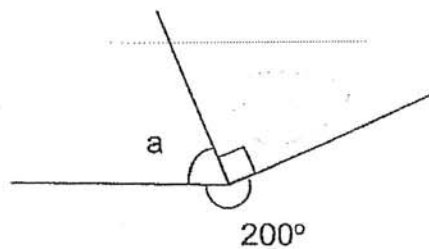
Ans: _____

- 19 In the figure below, AGD, FGC and EGB are straight lines. $\angle AGB$ is a right angle and $\angle EGF = 25^\circ$. Find $\angle DGC$.



Ans: _____^o

- 20 In the figure below, find $\angle a$.



Ans: _____^o

Questions 21 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. (20 marks)

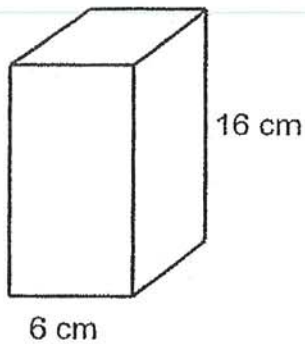
- 21 Mikel was left with 62.95 m of rope after cutting away 13.16 m of it. What was the original length of the rope?

Ans: _____ m

- 22 Mdm Chan had $\frac{9}{10}$ kg of flour. She used $\frac{1}{3}$ of it to bake a cake. How much flour was used to bake the cake?

Ans: _____ kg

- 23 A solid cuboid of height 16 cm has a square base of side 6 cm. What is the volume?



Ans: _____ cm^3

- 24 The table below shows the amount of money collected each day by a stall from Monday to Thursday.

Monday	Tuesday	Wednesday	Thursday
\$40	\$32	\$58	\$24

Find the average amount of money collected for the 4 days.

Ans: \$ _____

- 25 Ribbon A is 2.45 m long. Ribbon B is 5 times as long as Ribbon A. What is the total length of the two ribbons in metres?

Ans: _____ m

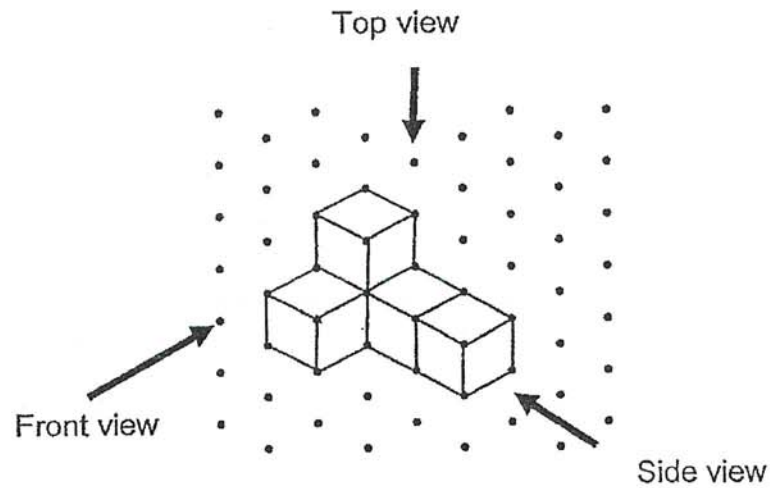
- 26 Xie Xiang had 3935 bottles of orange juice in her warehouse. She sold 180 bottles of them. How many bottles of orange juice were left in the warehouse? Round your answer to the nearest hundred.

Ans: _____

- 27 The price of a mobile phone before GST was \$820. Li Ren bought the mobile phone and had to pay an additional 7% GST. What was the amount of GST he had to pay?

Ans: \$ _____

- 28 Alison stacked 5 unit cubes and glued them together to form the solid below.



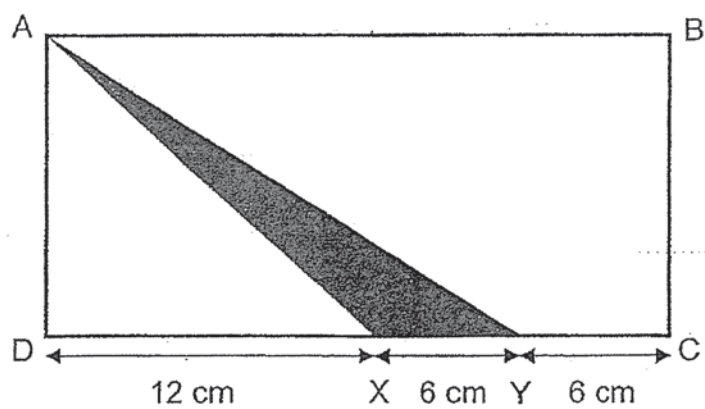
Draw the top view and the side view of the above solid on the grids below.

Top View

Side View



- 29 In the figure below, ABCD is a rectangle. Given that $DX = 12$ cm, $XY = YC = 6$ cm, what fraction of the figure is shaded?



Ans: _____

- 30 The average mass of Bernice, Calissa and Daisy is 53 kg. The average mass of Calissa and Bernice is 54 kg.

Each statement below is either true, false or not possible to tell from the information given. For each statement, put a tick (\checkmark) in the correct column.

Statement	True	False	Not possible to tell
The total mass of Calissa and Bernice is 108 kg.			
The mass of Daisy is 51 kg.			
Of the three girls, Daisy is the lightest.			

End of Paper



NANYANG PRIMARY SCHOOL

**END-OF-YEAR EXAMINATION
2020**

PRIMARY 5

**MATHEMATICS
PAPER 2**

Duration: 1 hour 30 minutes

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Write your answers in this booklet.
5. The use of an approved calculator is expected, where appropriate.

Name: _____ ()

Class: Primary 5 ()

Parent's Signature: _____

Booklet A	/ 20
Booklet B	/ 25
Paper 2	/ 55
Total	/ 100

Please sign and return the examination paper the next day. Any queries should be raised at the same time when returning paper.

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 Vijay ran $3\frac{1}{4}$ km. Triston ran $\frac{2}{5}$ km less than Vijay. How far did Triston run? Give your answer as a mixed number.

Ans: _____ km

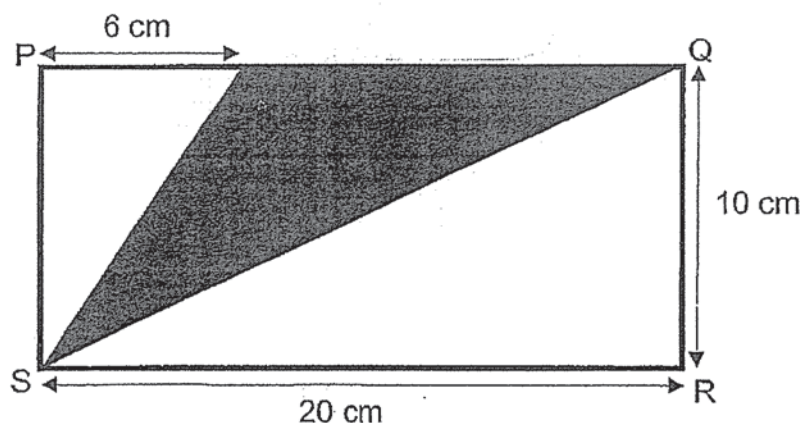
- 2 Mdm Lim used $3\frac{1}{3}$ m of cloth to make a cheongsam. She made 4 such cheongsams. How much cloth did she use?

Ans: _____ m

- 3 Rosie bought some books. The total cost of the books was \$81 and the average cost of the books was \$3. How many books did she buy?

Ans: _____

- 4 Given that PQRS is a rectangle, find the area of the shaded triangle.



Ans: _____ cm^2

- 5 James had forgotten his 3-digit passcode for logging into his digital device. However, he remembered that the passcode contained these three digits – 1, 5 and 7. None of the digits was repeated. He tried 751 but it was incorrect. How many more passcodes could he make?



Ans: _____

For questions 6 to 17, 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. (45 marks)

- 6 The total mass of a box containing 30 identical calendars was 8 kg. After 5 more such calendars were added into the box, the total mass then became 9.16 kg. What was the mass of the empty box?
Give your answer in kilograms.

Ans: _____ [3]

- 7 Two different shops offer the following discounts for the same handbag.

<p>Shop A</p>  <p>Handbag</p> <p>\$250 (Price before discount)</p> <p>20% Discount</p>	<p>Shop B</p>  <p>Handbag</p> <p>\$240 (Price before discount)</p> <p>\$20 Discount</p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------

- (a) What is the discount for the bag at Shop A?
- (b) Which shop sells the bag at a lower price after the discount? What is the discounted price at this shop?

Ans: (a) _____ [1]

(b) Shop: _____

Price: _____ [2]

- 8 Pei Pei and Vindra have 164 stickers altogether. Pei Pei and Yan have 104 stickers in total. Vindra has 4 times as many stickers as Yan. How many stickers does Pei Pei have?
-

Ans: _____ [3]

- 9 The ratio of the number of boys to the number of girls in a sports club was 3 : 5. There were 30 more girls than boys. How many children were there altogether?
-

Ans: _____ [3]

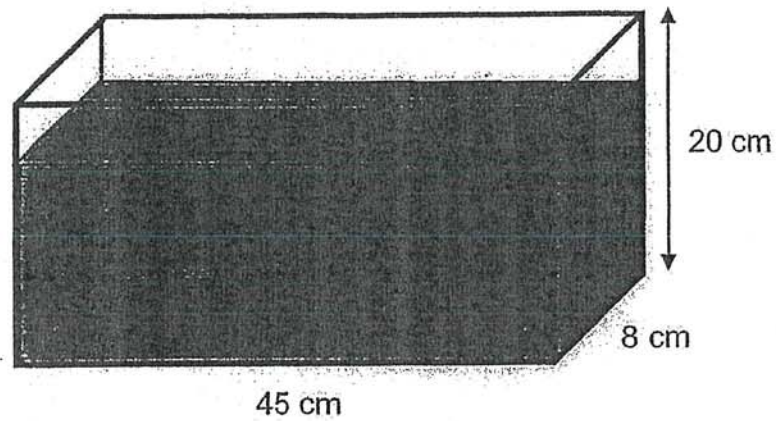
- 10 The average height of a group of boys was 123 cm. After one girl whose height was 137 cm joined the group, the average height of the group became 125 cm. Find the number of boys in the group.

Ans: _____ [3]

- 11 At a concert, $\frac{3}{8}$ of the adults were men. $\frac{7}{9}$ of the men and $\frac{3}{5}$ of the women did not wear spectacles. There were 528 adults who wore spectacles. How many adults were at the concert?

Ans: _____ [4]

- 12 A rectangular tank measuring 45 cm by 8 cm by 20 cm was $\frac{4}{5}$ – filled with water.



- (a) What was the capacity of the tank?
- (b) Ahminah poured all the water from the tank into empty identical bottles to the brim. Each bottle had a capacity of 240 cm^3 . How many such bottles were completely filled with water?

Ans: (a) _____ [1]

(b) _____ [3]

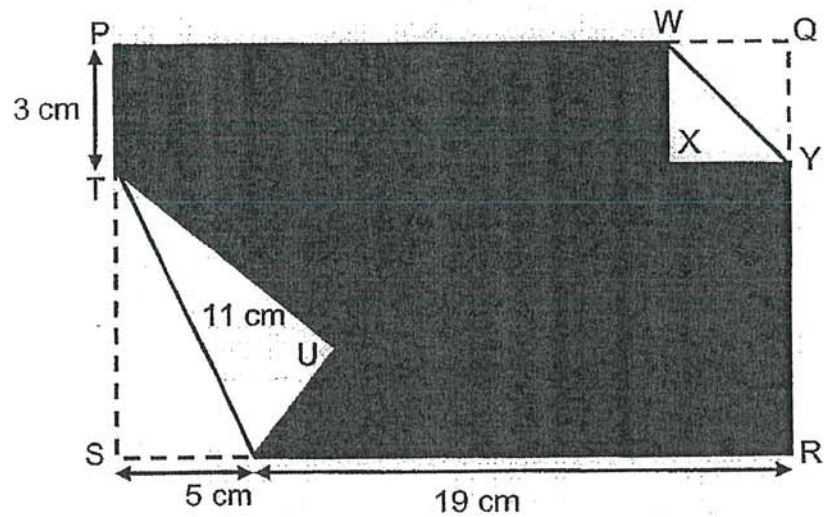
- 13 For every 7 chocolate muffins bought, 2 banana muffins would be given free. Ji Eun paid \$48 and received a total of 20 chocolate muffins and banana muffins.

Buy 7 chocolate muffins and
get 2 banana muffins free

- (a) How many banana muffins were given free to Ji Eun?
- (b) What was the price of 1 chocolate muffin?

Ans: (a) _____ [2]
(b) _____ [2]

- 14 In the figure, PQRS is a rectangular piece of paper. Two corners of the paper were folded. $PT = WX = XY = 3$ cm. $TU = 11$ cm. Find the area of the shaded part.



Ans: _____ [4]

- 15 Ye Ji baked some tarts. $\frac{5}{12}$ of them were chocolate tarts and $\frac{3}{7}$ of the remainder were strawberry tarts. The rest were lemon tarts. After eating $\frac{3}{4}$ of the lemon tarts, she was left with 4 lemon tarts.

- (a) How many lemon tarts did she bake?
(b) How many strawberry tarts did she bake?

Ans: (a) _____ [2]

(b) _____ [2]

- 16 The rates of booking a game room is shown in the table below.

Time	Cost per hour
10 a.m. to 2 p.m.	\$3.00
2 p.m. to 6 p.m.	\$4.50
6 p.m. to 10 p.m.	\$6.00

- (a) Devi booked a game room from 11 a.m. to 1 p.m. How much did she pay?
- (b) Mr Lim booked 3 game rooms from 4 p.m. to 6 p.m. How much did he pay?
- (c) Jenny paid \$22.50 for booking a game room. Her booking started from 5 p.m. What time did her booking end?

Ans: (a) _____ [1]

(b) _____ [2]

(c) _____ [2]

- 17 The first four figures of a pattern are shown below.

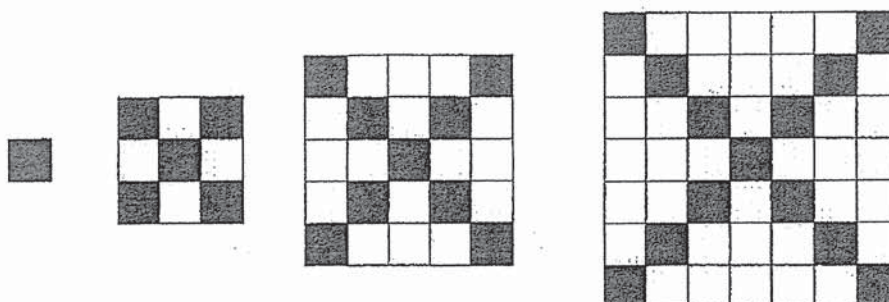


Figure 1 Figure 2 Figure 3 Figure 4

The table below shows the number of black squares and white squares in each figure.

Figure number	1	2	3	4
Number of black squares	1	5	9	13
Number of white squares	0	4	16	36

- (a) What is the total number of black squares and white squares in figure 5?
- (b) How many white squares are there in figure 6?
- (c) How many black squares are there in figure 15?

Ans: (a) _____ [1]
 (b) _____ [2]
 (c) _____ [2]

End of Paper

ANSWER KEY

YEAR: 2020

LEVEL: PRIMARY 5

SCHOOL: NANYANG PRIMARY SCHOOL

SUBJECT: MATHEMATICS

TERM: SA2

BOOKLET A

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

BOOKLET B

Q16	28
Q17	6.25
Q18	9
Q19	65°
Q20	70°
Q21	76.11
Q22	$0.9\text{kg} \div 3 = 0.3\text{kg}$ $\frac{3}{10}, \frac{9}{10} \text{ kg}$
Q23	$16 \times 6 \times 6 = 576$
Q24	$\frac{40+32+58+24}{4} = 38.5$
Q25	14.7
Q26	$3935 - 180 = 3755$ $3755 \approx 3800$
Q27	$7\% \times 820 = \$57.40$

Q28	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Top View</p> </div> <div style="text-align: center;"> <p>Side View</p> </div> </div>
Q29	$12 \times 24 = 288$ $\frac{1}{2} \times 6 \times 12 = 36$ $\frac{36}{288} = \frac{1}{8}$
Q30	<p>The total mass of Calissa and Bernice is 108kg. (True)</p> <p>The mass of Daisy is 51kg. (True)</p> <p>It is not possible to tell if Daisy is the lightest out of the three girls.</p>

BOOKLET C

Q1	$2\frac{17}{20}$
Q2	$13\frac{1}{3}$
Q3	27
Q4	$\frac{1}{2} \times 5 \times 14 = 70\text{cm}^2$
Q5	5
Q6	$1160 \div 5 = 232$ $232 \times 35 = 8120$ $9160 - 8120 = 1040\text{g}$ $1040\text{g} \approx 1.04\text{kg}$
Q7	<p>a) \$50</p> <p>b) A, \$200</p>
Q8	$164 - 104 = 60$ $60 \div 3 = 20$ $104 - 20 = 84$
Q9	$30 \div 2 = 15$ $5 + 3 = 8$

	$15 \times 8 = 120$
Q10	$123 + 2 = 125$ $137 - 12 = 125$ $12 \div 2 = 6$
Q11	$528 \div 8 = 66$ $66 \times 24 = 1584$
Q12	a) $45 \times 8 \times 20 = 7200$ b) $45 \times 8 \times 20 \times \frac{4}{5} = 5760$ $5760 \div 240 = 24$
Q13	a) $14 + 4 = 18$ ($2 \times 9 = 18$) b) $20 - 18 = 2$ $14 + 2 = 16$ $48 \div 16 = 3$
Q14	$\frac{1}{2} \times 3 \times 3 \times 2 = 9$ $\frac{1}{2} \times 11 \times 5 \times 2 = 55$ $14 \times 24 = 336$ $336 - 9 - 55 = 272$
Q15	$\frac{4}{7} \times \frac{1}{4} = \frac{1}{7}$ a) $4 \times 4 = 16$ b) $3 \times 4 = 12$
Q16	a) $3 \times 2 = 6$ b) $4.50 \times 2 = \$9$ $9 \times 3 = \$27$ c) $22.50 - 4.50 = 18$ $18 \div 3 = 6$ 9pm
Q17	a) $(9 + 7) \times 4 = 64$ $13 + 4 = 17$ $64 + 17 = 81$ b) $64 + 36 = 100$ c) $15 - 5 = 10$ $4 \times 10 = 40$ $40 + 17 = 57$



NANYANG PRIMARY SCHOOL
END-OF-YEAR EXAMINATION
2020

PRIMARY 5
MATHEMATICS
PAPER 1
(BOOKLET A)

Total Duration for Booklets A and B: 1 hour

Additional material: Official Answer Sheet (OAS)

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Circle your answers in the Official Answer Sheet (OAS) provided.
5. The use of calculators is NOT allowed.

Name: _____
Class: Primary 5 ()

6. There were 200 flowers in a vase. 40 of them were red. What percentage of the flowers were red?

$$\frac{40}{200} \times 100\% = 20\% \text{ (Ans)}$$

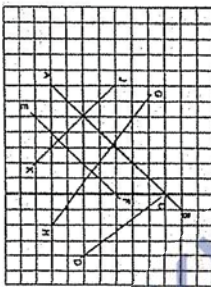
- (1) 5%
(2) 20%
(3) 40%
(4) 80%

7. Express Primary School had 800 pupils. 25% of the pupils went to school. How many pupils went to school?

$$25\% \times 800$$
$$= \frac{25}{100} \times 800$$
$$= 200 \text{ (Ans)}$$

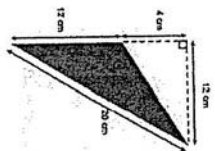
- (1) 30
(2) 165
(3) 275
(4) 675

8. Which line in the square grid is perpendicular to AB?



- (1) CD
(2) EF
(3) GH
(4) IJ

9. Find the area of the shaded triangle below.



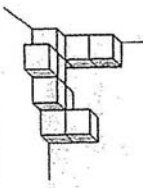
$$\frac{1}{2} \times 6 \times 4$$
$$= \frac{1}{2} \times 24$$
$$= 12 \text{ cm}^2$$

- (1) 72 cm²
(2) 84 cm²
(3) 120 cm²
(4) 144 cm²

10. Which one of the following is an equivalent ratio of 15 : 4?

- (1) 4 : 10 = 1 : 4
(2) 15 : 2 = 3 : 1
(3) 14 : 2 = 7 : 1
(4) 25 : 5 = 5 : 1

11. The solid below is made up of 1-cm cubes. What is its volume?



$$10 \times (1 \times 1 \times 1)$$
$$= 10 \text{ cm}^3$$

- (1) 9 cm³
(2) 10 cm³
(3) 11 cm³
(4) 12 cm³

12. Question 1 is 16 marks. Question 11 is 14 marks. If a pupil scores 40 marks in the examination, how many marks did he score in Question 11? (2 marks)

- (1) 8
(2) 6
(3) 7
(4) 8

13. In the number 3.24, what digit is in the tenths place?

$$30 \text{ kg} \times 5.0 \text{ kg}$$
$$30000 \times 50 = 3000000$$

- (1) 3000 g
(2) 3000 g
(3) 30000 g
(4) 30000 g

14. Which of the following is the same as 20 kg 20 g?

$$20 \text{ kg} \times 5.0 \text{ kg}$$
$$30000 \times 50 = 3000000$$

- (1) 3000 g
(2) 3000 g
(3) 30000 g
(4) 30000 g

15. There were 2100 men, 2500 women and 1100 children in a town. What is the ratio of the number of children to the number of women to the number of men? Express your answer in its simplest form.

$$11 : 25 : 21$$
$$= 11 : 25 : 21$$

- (1) 11 : 25 : 21
(2) 11 : 25 : 21
(3) 21 : 25 : 11
(4) 21 : 25 : 11

16. John paid \$2 for 25 pencil clips. How much did each pencil clip cost?

$$25 \text{ clips} \rightarrow \$2$$
$$1 \text{ clip} \rightarrow \frac{2}{25} = 0.08$$
$$= 8 \text{ p (Ans)}$$

- (1) 8¢
(2) 24¢
(3) 20¢
(4) 50¢

11 Average the following. Working show how you arrived at the solution.

$$\frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{1}{5}, \frac{1}{6}, \frac{1}{7}, \frac{1}{8}, \frac{1}{9}, \frac{1}{10}, \frac{1}{11}, \frac{1}{12}, \frac{1}{13}, \frac{1}{14}, \frac{1}{15}, \frac{1}{16}, \frac{1}{17}, \frac{1}{18}, \frac{1}{19}, \frac{1}{20}$$

Solution:

$$\frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{5} + \frac{1}{6} + \frac{1}{7} + \frac{1}{8} + \frac{1}{9} + \frac{1}{10} + \frac{1}{11} + \frac{1}{12} + \frac{1}{13} + \frac{1}{14} + \frac{1}{15} + \frac{1}{16} + \frac{1}{17} + \frac{1}{18} + \frac{1}{19} + \frac{1}{20}$$

12 The average of five numbers is 18. What is the sum of the numbers?

$$18 \times 5 = 90$$

$$18 \times 5 = 90$$

13 A machine printed 616 200 books in 200 days. The machine printed an equal number of books each day. How many books did the machine print each day?

$$616 \text{ 200} \div 200 = 3080$$

14 There had 72 weeks. The first 3 of the month to 1 year. How many weeks had there left?

$$72 - 3 = 69$$

15 Jerry had 6.4 kg of sugar. He put it all in 400 packets equally. How much sugar was there in each packet?

$$6.4 \text{ kg} \div 400 = 0.016 \text{ kg}$$

Question 16 to 20 carry 1 mark each. Write your answers in the space provided. For questions where require work, give your answers (2 marks).

16 Find the value of $36 - 4 \times (5 + 1)$.

$$36 - 4 \times 6 = 36 - 24 = 12$$

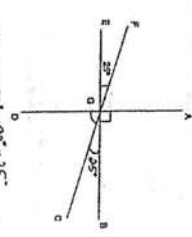
17 A bag was 15 cm long. It was cut into 4 equal parts. Find the length of each piece of bag. Express your answer as a decimal.

$$15 \div 4 = 3.75$$

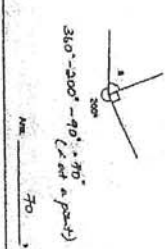
18 What is the missing number in the box?

$$3 \div 2 = 1.5$$

19 In the figure below, AOB, BOC and COA are straight lines. Find $\angle AOC$.



20 In the figure below, find $\angle x$.



Question 21 is to earn 2 extra marks. Show your working clearly and write your answers in the answer provided. For questions which require units, give your answers in the units stated. (20 marks)

21. A boat was built with 22.55 m of rope after cutting away 13.18 m of it. What was the original length of the rope?

$$22.55 - 13.18 = 9.37 \text{ (Ans.)}$$

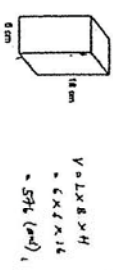
Ans. 9.37 m

22. A box of 100 kg of flour. The used $\frac{1}{5}$ of it to bake a cake. How much flour was used to bake the cake?

$$\frac{1}{5} \times 100 = 20 \text{ (Ans.)}$$

Ans. 20 kg

23. A model cuboid of length 18 cm has a square base of side 8 cm. What is the volume?



Ans. 1152

24. The table below shows the amount of money collected each day by a stall from Monday to Thursday.

Monday	Tuesday	Wednesday	Thursday
\$40	\$22	\$38	\$24

Find the average amount of money collected for the 4 days.
 $40 + 22 + 38 + 24 = 154$
 $154 \div 4 = 38.50 \text{ (Ans.)}$

Ans. 38.50

25. Rhonda A is 2.4 m long. Rhonda B is 3 times as long as Rhonda A. What is the total length of the two rhondas in metres?

$$A \rightarrow 2.4 \text{ m}$$

$$B \rightarrow 3 \times 2.4 = 7.2 \text{ m}$$

$$2.4 + 7.2 = 9.6 \text{ (Ans.)}$$

Ans. 9.6

26. 100 bags of 200 kg of rice were sold in two months. The total 100 tonnes of rice. How many tonnes of rice were left in the warehouse? Round your answer to the nearest hundred.

$$3135 - 100 = 3035 \text{ (Ans.)}$$

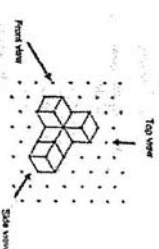
Ans. 3035

27. The price of a model phone before GST was \$220. (1) How much the model phone and had to pay an additional 7% GST? What was the amount of GST to be paid?

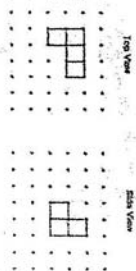
$$220 \times 1.07 = 235.40$$

Ans. 235.40

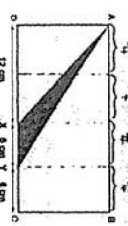
28. A group of 8 red cubes and 8 green cubes together to form the solid below.



Draw the top view and the side view of the above solid on the grids below.



29. In the figure below, ABCD is a rectangle. Given that DC = 12 cm, XY = 10 cm, and the fraction of the figure is shaded.



Area of shaded $\Delta = \frac{1}{2} \times \text{base} \times \text{height}$
 $= \frac{1}{2} \times 10 \times 12$
 $= 60 \text{ (Ans.)}$

Ans. 60

30. The average mass of Dennis, Chelsea and Cheryl is 33 kg. The average mass of Chelsea and Dennis is 42 kg.

Each statement below is either true, false or not possible to tell from the information given. For each statement, put a tick (✓) in the correct column.

Statement	True	False	Not possible to tell
The total mass of Chelsea and Dennis is 108 kg.	✓		
The mass of Cheryl is 63 kg.	✓		
Of the three girls, Cheryl is the lightest.			✓

$$33 \times 3 = 99$$

$$42 \times 2 = 84$$

$$99 - 84 = 15$$

$$15 \div 2 = 7.5$$

Duration: 1 hour 30 minutes

- 1 Do not turn over this page until you are told to do so
- 2 Follow all instructions carefully.
- 3 Answer all questions.
- 4 Write your answers in this booklet.
- 5 The use of an approved calculator is expected, where appropriate.

Roostlet A	/ 20
Roostlet B	/ 25
Paper 2	/ 55
Total	/ 100

Please sign and return the authorization paper the next day with questionnaire. Include the raised at the same time when returning paper.

6. The total mass of a box containing 50 identical marbles was 8 kg. After 3 more such marbles were added into the box, the total mass then became 8.15 kg. What was the mass of the empty box?
Give your answer in kilograms.

$$\begin{aligned} 916 - 8 &= 1.16 \text{ (5 columns)} \\ 1.16 \div 5 &= 0.232 \\ 0.232 \times 30 &= 6.96 \\ 8 - 6.96 &= 1.04 \text{ (ans)} \end{aligned}$$

$$\frac{1.04 \text{ B}_3}{\text{me}}$$

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1. Viking runs $2\frac{1}{4}$ km. Triston ran $\frac{7}{8}$ km less than Viking. How far did Triston run? Give your answer as a mixed number.

$$3\frac{1}{4} - \frac{2}{3} = 2\frac{7}{12} \text{ (ans)}$$

Age 2 1/2 Sex Male

3. What has used ¹ an of each to make a chromosome. How many cells did you use? ² How many cells did you use? ³ How many cells did you use? ⁴ How many cells did you use?

$$5\frac{1}{3} \times 4 = 15\frac{1}{3} \text{ (mi)}$$

Ans: 138

3. Robin bought some books. The total cost of the books was \$27 and she averaged cost of the books was \$3. How many books did she buy?

$27 \div 3 = 27 \text{ (Ans)}$

$$21 \div 3 = 27 \text{ (ani)}$$

Page 27

8. Pat and Vicki have 144 stickers altogether. Pat and Van have 104 stickers in total. Vicki has 4 times as many stickers as Van. How many stickers does Pat have?

$P + Y \geq 101$
 $(X \text{ new } V \text{ and } Y)$
 $164 - 104 = 60$

$$\begin{aligned} 3 \text{ unit} &\rightarrow 60 \\ 1 \text{ unit} &\rightarrow 60 \div 3 = 20 \text{ (Y)} \\ 104 - 20 &= 84 \text{ (P)} \end{aligned}$$

84

9. The ratio of the number of boys to the number of girls in a sports class was 3 : 5. There were 20 more girls than boys. How many children were there altogether?

$$B: G = D/H$$

2 unit $\rightarrow 30$
 unit $\rightarrow 30 \div 2$

$$\text{growth} \rightarrow 15 \times 8 = 120 \text{ (ans)}$$

Age 120

A rectangle with a width of 10 cm and a height of 20 cm. A line segment is drawn from the top-left corner to the bottom-right corner. A point on the right side, 8 cm from the top, is connected to the top-left corner, forming a shaded triangle.

$$\frac{1}{2} \times 14 \times 10 = 70 \text{ (ans)}$$

Ans 70

James had forgotten his 3-digit password for logging into the digital camera. However, he remembered that the password contained numerical digits — 1, 5 and 7. None of the digits was repeated. He tried 791 but it was incorrect. How many more passwords could he make?

157
175
517
571
715

Ans 5

58 The average height of a group of boys was 125 cm. After one girl whose height was 137 cm joined the group, the average height of the group became 126 cm. Find the number of boys in the group.

$125 - 123 = 2$ (4 average)
 $137 - 125 = 12$ (after height adjustment
 no longer)

頁 6

11 At a concert, $\frac{3}{5}$ of the adults were men, $\frac{7}{10}$ of the men and $\frac{1}{2}$ of the women did not wear spectacles. There were 520 adults who wore spectacles. How many adults were at the concert?

$$1 - \frac{3}{2} = -\frac{1}{2} \text{ (answer)}$$

$$\frac{7}{9} \times \frac{5}{8} = \frac{7}{24} \text{ (m, No spec)}$$

၁၂၆
X
၁၃၅
၁၃၆

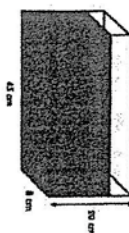
$\frac{9}{24} \text{ (no excess)}$

$$1 - \frac{\pi}{24} - \frac{9}{24} = \frac{1}{3} \text{ (adults: spores)}$$

528

$$\frac{3}{2} \rightarrow 508 \times 3$$

- 12 A rectangular book measuring 45 cm by 8 cm by 20 cm was
left open



- 23) Find the capacity of the tank.
- 24) A school provided the amount of water for each boy every 10 minutes in the 30 min. Each bottle has a capacity of 240 ml. How many such bottles were consequently filled with water?
- 25) $145 \times 8 \times 30 = 35400$ (ml.)
- 26) $\frac{2}{3} \times 3000 \times 5710$ (ml/min)
- $5710 \div 240 = 24$ (min)

Ans (a) $\frac{7300 \text{ cm}^3}{\text{N}}$
(b) $\frac{24}{\text{N}}$

13. The items of clothing a person owns to whom the table below.
- | Item | Cost per item |
|----------------------|---------------|
| 10 pairs of T-shirts | \$3.00 |
| 3 pairs of S. pants | \$4.00 |
| 8 pairs of V. pants | \$6.00 |
- (a) Paul bought a games room from 11 a.m. to 3 p.m. How much did he pay?
- (b) Liz bought 3 games rooms from 4 p.m. to 8 p.m. How much did she pay?
- (c) Mary paid \$20.25 for renting a games room. How long did she play?

Time	Cost per hour
10 a.m. to 2 p.m.	\$3.00
2 p.m. to 6 p.m.	\$4.00
6 p.m. to 10 p.m.	\$5.00

- Use bowler's 3 games scores from 11 am to 9 pm. How much did he bowl?
- Use bowler's 3 games scores from 4 p.m. to 8 p.m. How much did he bowl?
- a) 11 a.m. $\xrightarrow{2\frac{1}{2}}$ 1 p.m.
83 x 2 = 166 (over)
- b) 4 p.m. $\xrightarrow{2\frac{1}{2}}$ 6 p.m.
84.50 x 2 = 169 (1 over)
- c) 83 x 3 = 249 (over)
82.50 - 84.50 = 2 (1 r 7 h)
- d) 82 x 3 = 246 (over)
82 - 84.50 = 2 (1 r 7 h)
- e) 81 x 3 = 243 (over)
81 - 84.50 = 3 (over)
- f) 80 x 3 = 240 (over)
80 - 84.50 = 4 (over)
- g) 79 x 3 = 237 (over)
79 - 84.50 = 5 (over)
- h) 78 x 3 = 234 (over)
78 - 84.50 = 6 (over)
- i) 77 x 3 = 231 (over)
77 - 84.50 = 7 (over)
- j) 76 x 3 = 228 (over)
76 - 84.50 = 8 (over)
- k) 75 x 3 = 225 (over)
75 - 84.50 = 9 (over)
- l) 74 x 3 = 222 (over)
74 - 84.50 = 10 (over)
- m) 73 x 3 = 219 (over)
73 - 84.50 = 11 (over)
- n) 72 x 3 = 216 (over)
72 - 84.50 = 12 (over)
- o) 71 x 3 = 213 (over)
71 - 84.50 = 13 (over)
- p) 70 x 3 = 210 (over)
70 - 84.50 = 14 (over)
- q) 69 x 3 = 207 (over)
69 - 84.50 = 15 (over)
- r) 68 x 3 = 204 (over)
68 - 84.50 = 16 (over)
- s) 67 x 3 = 201 (over)
67 - 84.50 = 17 (over)
- t) 66 x 3 = 198 (over)
66 - 84.50 = 18 (over)
- u) 65 x 3 = 195 (over)
65 - 84.50 = 19 (over)
- v) 64 x 3 = 192 (over)
64 - 84.50 = 20 (over)
- w) 63 x 3 = 189 (over)
63 - 84.50 = 21 (over)
- x) 62 x 3 = 186 (over)
62 - 84.50 = 22 (over)
- y) 61 x 3 = 183 (over)
61 - 84.50 = 23 (over)
- z) 60 x 3 = 180 (over)
60 - 84.50 = 24 (over)
- aa) 59 x 3 = 177 (over)
59 - 84.50 = 25 (over)
- ab) 58 x 3 = 174 (over)
58 - 84.50 = 26 (over)
- ac) 57 x 3 = 171 (over)
57 - 84.50 = 27 (over)
- ad) 56 x 3 = 168 (over)
56 - 84.50 = 28 (over)
- ae) 55 x 3 = 165 (over)
55 - 84.50 = 29 (over)
- af) 54 x 3 = 162 (over)
54 - 84.50 = 30 (over)
- ag) 53 x 3 = 159 (over)
53 - 84.50 = 31 (over)
- ah) 52 x 3 = 156 (over)
52 - 84.50 = 32 (over)
- ai) 51 x 3 = 153 (over)
51 - 84.50 = 33 (over)
- aj) 50 x 3 = 150 (over)
50 - 84.50 = 34 (over)
- ak) 49 x 3 = 147 (over)
49 - 84.50 = 35 (over)
- al) 48 x 3 = 144 (over)
48 - 84.50 = 36 (over)
- am) 47 x 3 = 141 (over)
47 - 84.50 = 37 (over)
- an) 46 x 3 = 138 (over)
46 - 84.50 = 38 (over)
- ao) 45 x 3 = 135 (over)
45 - 84.50 = 39 (over)
- ap) 44 x 3 = 132 (over)
44 - 84.50 = 40 (over)
- aq) 43 x 3 = 129 (over)
43 - 84.50 = 41 (over)
- ar) 42 x 3 = 126 (over)
42 - 84.50 = 42 (over)
- as) 41 x 3 = 123 (over)
41 - 84.50 = 43 (over)
- at) 40 x 3 = 120 (over)
40 - 84.50 = 44 (over)
- au) 39 x 3 = 117 (over)
39 - 84.50 = 45 (over)
- av) 38 x 3 = 114 (over)
38 - 84.50 = 46 (over)
- aw) 37 x 3 = 111 (over)
37 - 84.50 = 47 (over)
- ax) 36 x 3 = 108 (over)
36 - 84.50 = 48 (over)
- ay) 35 x 3 = 105 (over)
35 - 84.50 = 49 (over)
- az) 34 x 3 = 102 (over)
34 - 84.50 = 50 (over)
- ba) 33 x 3 = 99 (over)
33 - 84.50 = 51 (over)
- bb) 32 x 3 = 96 (over)
32 - 84.50 = 52 (over)
- bc) 31 x 3 = 93 (over)
31 - 84.50 = 53 (over)
- bd) 30 x 3 = 90 (over)
30 - 84.50 = 54 (over)
- be) 29 x 3 = 87 (over)
29 - 84.50 = 55 (over)
- bf) 28 x 3 = 84 (over)
28 - 84.50 = 56 (over)
- bg) 27 x 3 = 81 (over)
27 - 84.50 = 57 (over)
- bh) 26 x 3 = 78 (over)
26 - 84.50 = 58 (over)
- bi) 25 x 3 = 75 (over)
25 - 84.50 = 59 (over)
- bj) 24 x 3 = 72 (over)
24 - 84.50 = 60 (over)
- bk) 23 x 3 = 69 (over)
23 - 84.50 = 61 (over)
- bl) 22 x 3 = 66 (over)
22 - 84.50 = 62 (over)
- bm) 21 x 3 = 63 (over)
21 - 84.50 = 63 (over)
- bn) 20 x 3 = 60 (over)
20 - 84.50 = 64 (over)
- bo) 19 x 3 = 57 (over)
19 - 84.50 = 65 (over)
- bp) 18 x 3 = 54 (over)
18 - 84.50 = 66 (over)
- bq) 17 x 3 = 51 (over)
17 - 84.50 = 67 (over)
- br) 16 x 3 = 48 (over)
16 - 84.50 = 68 (over)
- bs) 15 x 3 = 45 (over)
15 - 84.50 = 69 (over)
- bt) 14 x 3 = 42 (over)
14 - 84.50 = 70 (over)
- bu) 13 x 3 = 39 (over)
13 - 84.50 = 71 (over)
- bv) 12 x 3 = 36 (over)
12 - 84.50 = 72 (over)
- bw) 11 x 3 = 33 (over)
11 - 84.50 = 73 (over)
- bx) 10 x 3 = 30 (over)
10 - 84.50 = 74 (over)
- by) 9 x 3 = 27 (over)
9 - 84.50 = 75 (over)
- bz) 8 x 3 = 24 (over)
8 - 84.50 = 76 (over)
- ca) 7 x 3 = 21 (over)
7 - 84.50 = 77 (over)
- cb) 6 x 3 = 18 (over)
6 - 84.50 = 78 (over)
- cc) 5 x 3 = 15 (over)
5 - 84.50 = 79 (over)
- cd) 4 x 3 = 12 (over)
4 - 84.50 = 80 (over)
- ce) 3 x 3 = 9 (over)
3 - 84.50 = 81 (over)
- cf) 2 x 3 = 6 (over)
2 - 84.50 = 82 (over)
- cg) 1 x 3 = 3 (over)
1 - 84.50 = 83 (over)
- ch) 0 x 3 = 0 (over)
0 - 84.50 = 84 (over)
- ci) 84.50 x 3 = 253.50 (over)
84.50 - 84.50 = 0 (over)
- cj) 84.50 x 3 = 253.50 (over)
84.50 - 84.50 = 0 (over)
- ck) 84.50 x 3 = 253.50 (over)
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- cl) 84.50 x 3 = 253.50 (over)
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- cm) 84.50 x 3 = 253.50 (over)
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- cn) 84.50 x 3 = 253.50 (over)
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- co) 84.50 x 3 = 253.50 (over)
84.50 - 84.50 = 0 (over)
- cp) 84.50 x 3 = 253.50 (over)
84.50 - 84.50 = 0 (over)
- cq) 84.50 x 3 = 253.50 (over)
84.50 - 84.50 = 0 (over)
- cr) 84.50 x 3 = 253.50 (over)
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- cs) 84.50 x 3 = 253.50 (over)
84.50 - 84.50 = 0 (over)
- ct) 84.50 x 3 = 253.50 (over)
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- cu) 84.50 x 3 = 253.50 (over)
84.50 - 84.50 = 0 (over)
- cv) 84.50 x 3 = 253.50 (over)
84.50 - 84.50 = 0 (over)
- cw) 84.50 x 3 = 253.50 (over)
84.50 - 84.50 = 0 (over)
- cx) 84.50 x 3 = 253.50 (over)
84.50 - 84.50 = 0 (over)
- cy) 84.50 x 3 = 253.50 (over)
84.50 - 84.50 = 0 (over)
- cz) 84.50 x 3 = 253.50 (over)
84.50 - 84.50 =

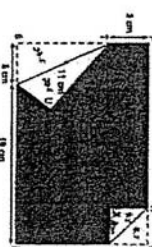
- 13 For every 7 chocolate muffins bought, 3 banana muffins would be given free. A Kum paid \$48 and received a total of 20 chocolate muffins and banana muffins.

Buy 7 chocolate muffins and get 2 banana muffins free

- (a) How many barrels of oil are there per barrel? Is it 1 barrel?
- (b) What was the price of 1 barrel of oil?
- (c) $3 + 5 = 9$ (1 barrel)
- $20 + 9 = 29$ (2 barrels)
- $2 \times 2 = 4$ (1 barrel)
- (d) $20 - 4 = 16$ (1 barrel)
- $\$48 / 16 = \3 (1 barrel)

Area (a) 4 ft²
(b) 8.3 ft²

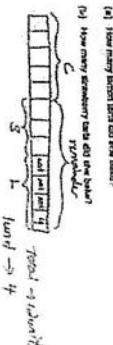
- 14 In the figure, PQRS is a rectangular frame of paper. The corners at P and S were folded. $PT = WX = XY = 3$ cm. TU = 11 cm. Find the length of the shaded part.



$$\begin{aligned} 14 + 5 &= 19 \\ 11 + 3 &= 14 \\ 24 \times 14 &= 336 \text{ (orio)} \quad \text{or} \quad 19 \times 14 \\ \frac{1}{2} \times 11 \times 5 &= 27.5 \quad \text{unshaded} \\ \frac{1}{2} \times 3 \times 5 &= 7.5 \quad \text{shaded} \\ 336 - 27.5 \times 2 &= 281 \text{ (orio)} \end{aligned}$$

$$m \frac{\partial^2 \psi}{\partial x^2}$$

- 10 We included some birds $\frac{1}{12}$ of whom were Cereoides which most of the remainder were Striped-birds. The rest were Sparrow-birds. About $\frac{3}{4}$ of the brown birds, the rest half with 4 brown birds and $\frac{1}{4}$.



Lesson $\rightarrow 4 \times 4$
 $= 16$ (ans)

Stranberg $\rightarrow 3 \times 4$
 $= 12$ (ans)

$$\frac{16}{12}$$