



Rosyth School
End-of-Year Examination 2020
Mathematics
Paper 1
Primary 5

Name: _____ Register No _____

Class: Pr 5 - _____

Date: 2 November 2020 Parent's Signature: _____

Total Time for Booklets A and B : 1 hour

Booklet A

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. Shade your answers in the Optical Answer Sheet (OAS) provided.
4. You are not allowed to use a calculator.
5. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet A)	20	

* This booklet consists of 7 pages (including this cover page).

This paper is not to be reproduced in part or whole without the permission of the Principal.

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

All diagrams in this paper are not drawn to scale unless stated otherwise.

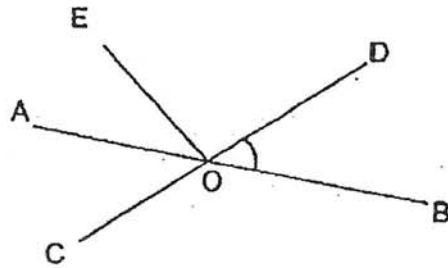
(20 marks)

-
1. The value of the digit 6 in 3 617 035 is _____.
- (1) 6×100
 - (2) 60×100
 - (3) 60×1000
 - (4) $600 \times 1\,000$
2. Round 342 419 to the nearest thousand.
- (1) 340 000
 - (2) 342 000
 - (3) 342 400
 - (4) 343 000
3. Which of the following numbers are common factors of 16 and 24?
- (1) 2 and 3
 - (2) 4 and 6
 - (3) 4 and 8
 - (4) 8 and 12

4. In a Math test, Alynna answered 4 out of 20 sums wrongly. What is the ratio of the number of sums she answered correctly to the number of sums she answered wrongly?

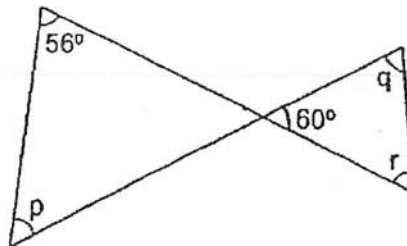
- (1) 1 : 5
- (2) 1 : 4
- (3) 5 : 1
- (4) 4 : 1

5. AOB and COD are straight lines. Which angle has the same value as $\angle BOD$?



- (1) $\angle AOC$
- (2) $\angle AOD$
- (3) $\angle COB$
- (4) $\angle COE$

6. Find the sum of $\angle p$, $\angle q$ and $\angle r$ in the figure below.



- (1) 116°
- (2) 180°
- (3) 184°
- (4) 244°

7. 4 tens, 3 hundredths and 8 thousandths is the same as _____.

- (1) 0.438
- (2) 40.38
- (3) 40.038
- (4) 8340

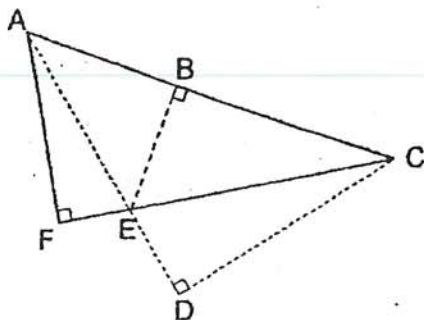
8. Kylie spent \$5 of her allowance and had \$15 left. What fraction of her allowance did she spend?

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

9. Express 1.05 as a percentage.

- (1) 0.0105%
- (2) 1.05%
- (3) 10.5%
- (4) 105%

10. In the figure below, FC is the base of triangle ACF. What is its height?



- (1) AC
 - (2) BE
 - (3) AF
 - (4) EC
11. An apple cost \$0.20 more than a pear. John bought 1 apple and 3 pears and paid a total of \$1.80. How much did an apple cost?

- (1) \$0.40
- (2) \$0.60
- (3) \$1.20
- (4) \$1.60

12. In Tampines School, $\frac{2}{5}$ of the pupils take public transport to school. Of the pupils who take public transport to school, $\frac{2}{3}$ of them take the MRT and the rest take bus. What fraction of the pupils take bus to school?

(1) $\frac{2}{15}$

(2) $\frac{3}{15}$

(3) $\frac{4}{15}$

(4) $\frac{6}{15}$

13. Claire used $\frac{1}{3}$ kg of sugar from a bag. She had $\frac{4}{5}$ of the sugar in the bag left. How much sugar was there in the bag at first?

(1) $\frac{8}{15}$ kg

(2) $1\frac{2}{3}$ kg

(3) $1\frac{2}{15}$ kg

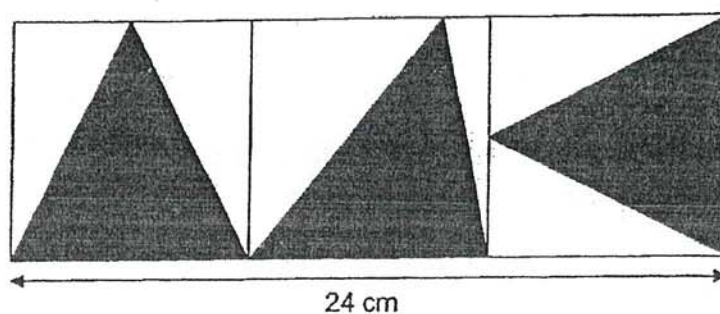
(4) $\frac{4}{15}$ kg

14. Dan and Ahmad had an equal number of sweets. After Dan sold 18 sweets and Ahmad sold 58 sweets, Dan had 3 times as many sweets as Ahmad left. How many sweets did Ahmad have in the end?

- (1) 20
- (2) 38
- (3) 60
- (4) 78

15. A floor tile is made up of three identical squares. A triangle is drawn in each square as shown.

Find the shaded area of the floor tile.



- (1) 32 cm^2
- (2) 96 cm^2
- (3) 192 cm^2
- (4) 288 cm^2



Rosyth School
End-of-Year Examination 2020
Mathematics
Paper 1
Primary 5

Name: _____ Register No: _____

Class: Pr 5 - _____

Date: 2 November 2020 Parent's Signature: _____

Total Time for Booklets A and B : 1 hour

Booklet B

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. You are **not** allowed to use a calculator.
4. Write your answers in the booklet.
5. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet B)	25	

* This booklet consists of 9 pages (including this cover page).

This paper is not to be reproduced in part or whole without the permission of the Principal.

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.

Do not write
in this space

All diagrams in this paper are not drawn to scale unless stated otherwise.
(5 marks)

16. $576\,000 \div 200 = \underline{\hspace{2cm}}$

Ans :

17. Find the value of $18 \div (3 \times 2) + 7 - 1 + 1$.

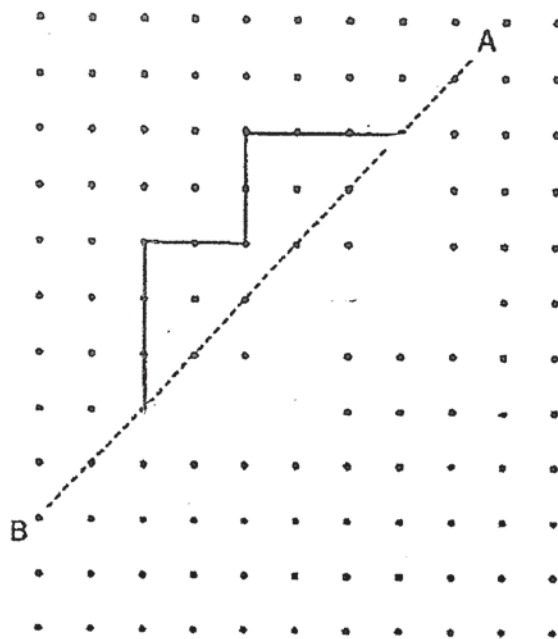
Ans :

18. The mass of a packet of sugar is $\frac{3}{4}$ kg. What is the mass of 10 packets of sugar? Express your answer as a mixed number in the simplest form in kg.

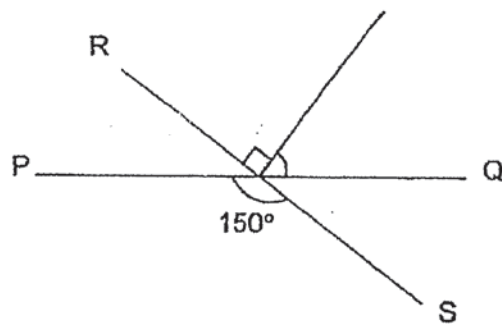
Ans : kg

19. Complete the following figure to make it symmetrical using line AB as the line of symmetry.

Do not write
in this space



20. In the figure below, PQ and RS are straight lines. Find $\angle d$.



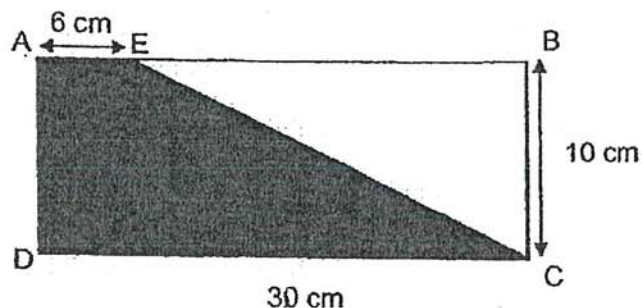
Ans : _____°

Questions 21 to 30 carry 2 marks each. Show your workings 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.

Do not write in this space

All diagrams in this paper are not drawn to scale unless stated otherwise. (20 marks)

21. In the figure below, ABCD is a rectangle and BCE is a triangle. Find the shaded area of the rectangle.



Ans : _____ cm²

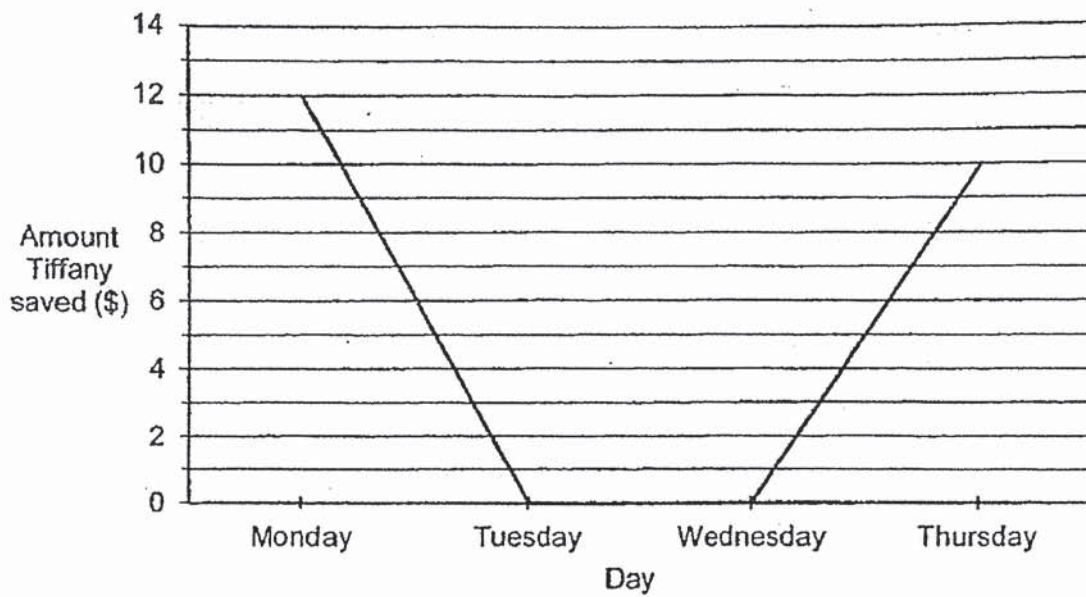
22. The ratio of the amount of money Faith had to the amount of money Chloe had was 3 : 7. After Faith spent \$8, Chloe had \$20 more than Faith. How much money did Chloe have?

--	--	--

--	--	--	--	--	--	--

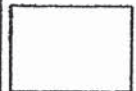
Ans : _____

23. Tiffany was given \$25 daily for her pocket money. The graph below shows the amount of money she saved each day after spending some of her pocket money. Do not write in this space



How much money did Tiffany spend over the 4 days?

Ans : \$ _____



24. Kim recorded the distance she drove her car each day.
 She drove 100.2 km on Day 1.
 On Day 2, she drove 2000 m more than Day 1.
 On Day 3, she drove 2000 m more than Day 2.
 Based on the information above, put a tick in the correct box.

Qn	Statement	True	False	Not possible to tell
(a)	She drove 102.2 km on Day 2.			
(b)	She drove 4000 m more on Day 3 than Day 1.			

☐

25. AB is a straight line. Draw and label $\angle CAB = 70^\circ$

A  B

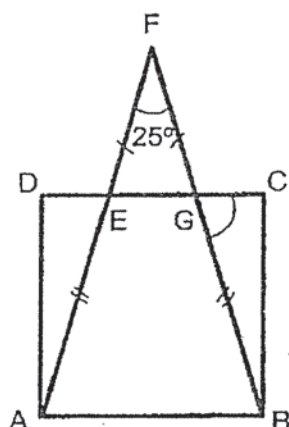
☐

26. The price of a tennis racket before discount was \$150. Caitlin bought it at a discount of 30%. How much did Caitlin pay for the tennis racket?

Do not write
in this space

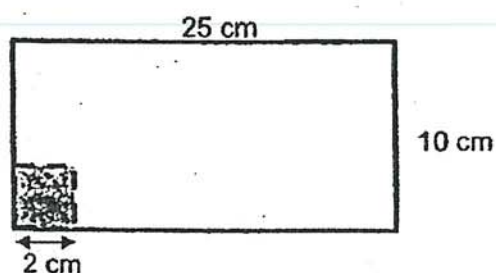
Ans : \$ _____

27. In the diagram shown below, ABF is an isosceles triangle and ABCD is a square. $\angle AFB$ is 25° . Find $\angle BGC$.



Ans : _____

28. The figure below shows a rectangular piece of paper. John wants to cut out as many 2-cm squares as possible for his art project. How many squares can he cut out from the paper?



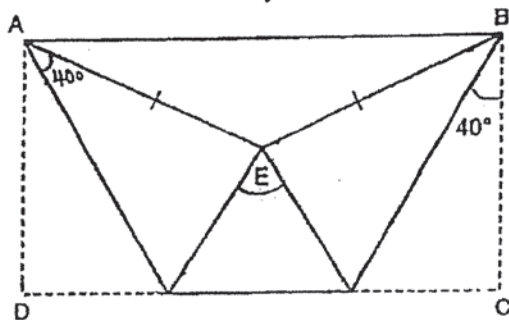
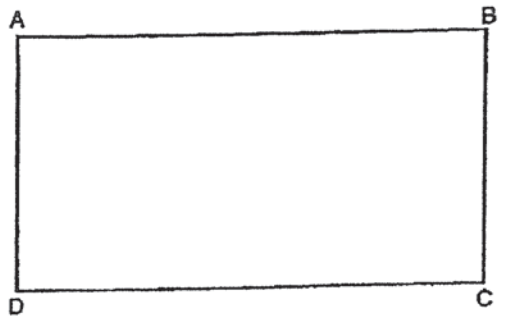
Ans : _____

29. Express $\frac{2}{7}$ as a decimal. Express your answer correct to 2 decimal places

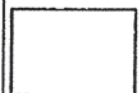
Ans : _____

30. A rectangular sheet of paper ABCD is folded as shown in the figure below. Given that $AE = BE$, find $\angle AEB$.

Do not write
in this space



Ans : _____ °





Rosyth School
End-of-Year Examination 2020
Mathematics
Paper 2
Primary 5

Name: _____

Register No. _____

Class: Pr 5 - _____

Date: 2 November 2020

Parent's Signature: _____

Time: 1 h 30 min

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. **Show your workings clearly** as marks are awarded for correct working.
4. Write your answers in this booklet.
5. You are allowed to use a calculator.
6. Answer all questions.

Questions	Maximum Mark	Marks Obtained
Q 1 to 5	10	
Q 6 to 17	45	

Section	Maximum Mark	Marks Obtained
Paper 1	45	
Paper 2	55	
Total	100	

* This booklet consists of **15** pages (including this cover page).
This paper is not to be reproduced in part or whole without the permission of the Principal.

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)

All diagrams in this paper are not drawn to scale unless stated otherwise.

1. The average English marks of Ahmad, Bala, Candy and Don was 66. When Eddy's English marks was added in, the average score of the 5 children became 62. What was Eddy's English marks?

Ans : _____

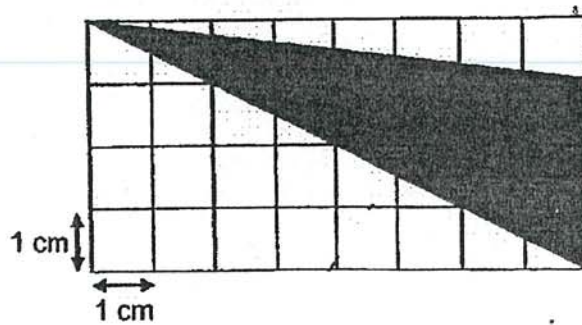
2. The water bill is charged at the following rates:

1 st 40 units	\$1.15 per unit
Above 40 units	\$1.48 per unit

Mrs Tan's family used a total of 52 units of water.
How much money did Mrs Tan have to pay?

Ans : _____

3. Find the area of the shaded triangle in the square grid below.



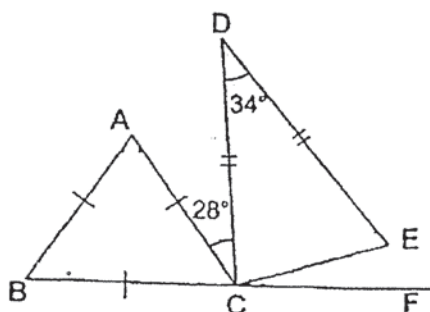
Ans : _____ cm^2

4. Tina had 270 cm of string. She used 80 cm of it to tie 5 presents. Each present was tied using identical length of string. What is the maximum number of presents she can tie using the remaining string?

Ans : _____

Do not write
in this space

5. In the figure below, ABC is an equilateral triangle and CDE is an isosceles triangle. BCF is a straight line. Given that $\angle ACD = 28^\circ$ and $\angle CDE = 34^\circ$, find $\angle ECF$.



Ans : _____°



For Questions 6 to 17, 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. For questions which require units, give your answers in the units stated.

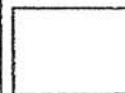
Do not write
in this space

(45 marks)

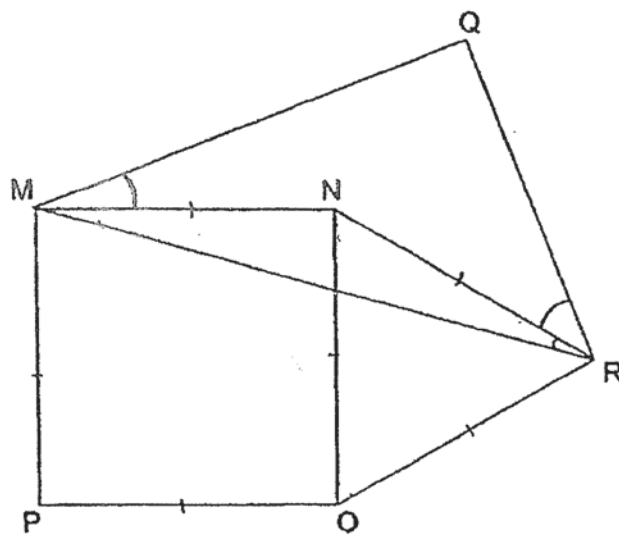
All diagrams in this paper are not drawn to scale unless stated otherwise.

6. $\frac{3}{5}$ of the amount of money Grace has is \$8 more than half of her money.
Grace spent $\frac{1}{4}$ of her money to buy a tie. How much did the tie cost?

Ans : _____ [3]

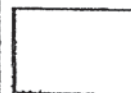


7. The figure below is made up of square $MNOP$ and two triangles MQR and NRO . $MN = NR = RO = ON$. Find the sum of $\angle QMN$ and $\angle QRN$.



Do not write
in this space

Ans : _____ [3]

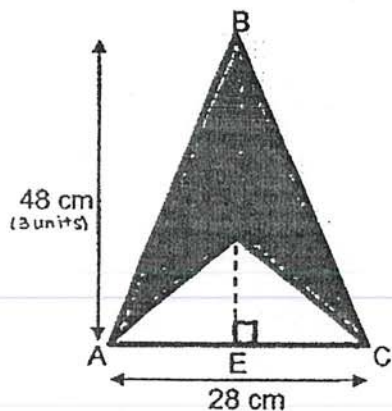


8. Steven and Max had the same amount of money. After Steven spent \$54 and Max saved another \$12, the ratio of Steven's amount of money to Max's amount of money became 2 : 5. How much money did the 2 boys have altogether in the end?

Do not write
in this space

Ans : _____ [3]

9. In the figure shown below, ABC and ADC are triangles. The length of BD is twice the length of DE. Find the area of the shaded part.



Ans : _____ [3]

10. The average age of Andy, Ben and Daniel is 42 years old. They are all of different ages. The youngest of them is 19 years old. Daniel is 60 years old.

Do not write
in this space

- (a) What is the average age of Andy and Ben?
- (b) What is the smallest possible difference in age between Andy and Daniel? (Both their ages are whole numbers)

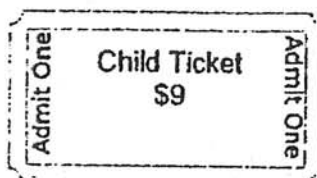
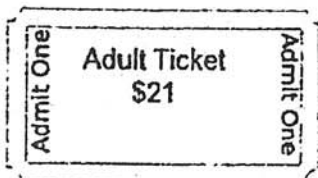
Ans : (a) _____ [2]

(b) _____ [2]

11. The ticket prices to a concert for each adult and child is shown below. There were 215 more adults than children at the concert. The amount collected from the sale of adult tickets was \$6759 more than the amount collected from the sale of children tickets.

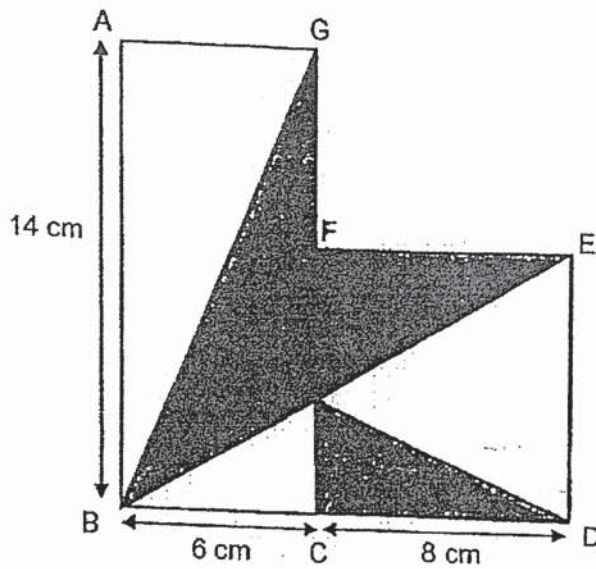
Do not write
in this space

How many adults and children concert tickets were sold altogether?



Ans: _____ [4]

12. The figure below is made up of rectangle ABCG and square CDEF. $AB = 14$ cm, $BC = 6$ cm, $CD = 8$ cm and $CH = 3$ cm. What is the total area of the shaded parts?



Do not write
in this space

Ans : _____ [3]

13. 2 similar tables cost as much as 3 similar chairs. Hanif bought 3 such tables and 5 such chairs at \$760. What was the total cost of 1 table and 1 chair?

Do not write
in this space

Ans : _____ [4]



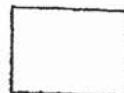
14. A bag cost \$12 more than a file. The bag cost twice as much as the cost of a calculator. Jacob paid \$144 for 1 bag, 3 files and 2 calculators.

- (a) How much did the bag cost?
- (b) Jacob bought more files. He paid an additional \$120. How many files did he buy altogether?

Do not write
in this space

Ans : a) _____ [2]

b) _____ [2]



15. At a shop, the usual price of a mobile phone was \$850. Jack bought the mobile phone at a discount of 30%.

Do not write
in this space

- (a) What was the discounted price of the mobile phone?
- (b) Jack had to pay 7% GST on the discounted price. How much did he pay for the mobile phone?

Ans : _____ [2]

Ans : _____ [2]

16. At the market, the prices of some fruits and vegetables are shown below.

Potatoes	750 g for \$3.15
Oranges	4 for \$4.70
Mushrooms	100 g for ?

Beatrice bought 3 kg of potatoes, 28 oranges and 300 g of mushrooms. She paid \$53.60 altogether. Find the price of 100 g of mushrooms.

Do not write
in this space

Ans : _____ [5]

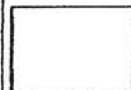
17. Mr Kim gave a sum of money to Amy, Bel, Chloe and Dina. Amy took \$240. Bel took \$60 more than $\frac{2}{5}$ of the remaining sum of money.

The rest of the money was given to Chloe and Dina. Dina took \$12 more than $\frac{2}{5}$ of the rest of the money. Chloe took all the money that was left over. Chloe took \$36 more than Dina.

What was the sum of money that Mr Kim had given to the 4 girls?

Do not write
in this space

Ans : _____ [5]



ANSWER KEY

YEAR: 2020

LEVEL: PRIMARY 5

SCHOOL: ROSYTH SCHOOL


SUBJECT: MATHEMATICS

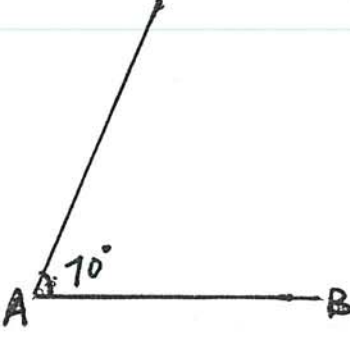
TERM: SA2

BOOKLET A

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

BOOKLET B

Q16	2880
Q17	10
Q18	$7\frac{1}{2}$
Q19	
Q20	60°
Q21	180cm^2
Q22	$\$20 - \$8 = \$12$ $\$12 \div 4 = \3 $\$3 \times 7 = \21
Q23	$25 \times 4 = \$100$ $\$12 + \$10 = \$22$ $\$100 - \$22 = \$78$

Q24	a) True b) True
Q25	
Q26	$100\% - 30\% = 70\%$ $\frac{7}{10} \times \$150 = \105
Q27	77.5°
Q28	60cm
Q29	0.29
Q30	$180^\circ - 90^\circ - 40^\circ = 50^\circ$ $180^\circ - (50^\circ \times 2) = 80^\circ$ $180^\circ - (80^\circ \times 2) = 20^\circ$ $360^\circ - 90^\circ - 90^\circ - 20^\circ = 160^\circ$

BOOKLET C

Q1	$66 \times 4 = 264$ $62 \times 5 = 310$ $310 - 264 = 46$
Q2	$\$1.15 \times 40 = \46 $\$1.48 \times 12 = \17.76 $\$46 + \$17.76 = \$63.76$
Q3	12cm ²
Q4	$270 - 80 = 190$ $190 \div 6 = 11 \text{ R}14$ 11
Q5	$180 \div 3 = 60$ $180^\circ - 34^\circ = 146^\circ$

	$146^{\circ} \div 2 = 73^{\circ}$ $180^{\circ} - 60^{\circ} - 28^{\circ} - 73^{\circ} - 47^{\circ} = 19^{\circ}$
Q6	$\$8 \times 10 = \80 $\$80 \div 4 = \20
Q7	$\frac{180 - 90 - 60}{2} = 15^{\circ}$ $180 - 90 - 15 - 15 = 60^{\circ}$
Q8	$\$54 + \$12 = \$66$ $\$66 \div 3 = \22 $\$22 \times 7 = \154
Q9	$\frac{1}{2} \times 28 \times (48 \times \frac{1}{3}) = 224 \text{ cm}^2$ $\frac{1}{2} \times 28 \times 48 = 672 \text{ cm}^2$ $672 - 224 = 448 \text{ cm}^2$
Q10	a) $42 \times 3 = 126$ $126 - 60 = 66$ $66 \div 2 = 33$ b) $126 - 19 - 60 = 47$ $60 - 47 = 13$
Q11	$21 \times 215 = \$4515$ $6759 - 4515 = \$2244$ $21 - 9 = \$12$ $2244 \div 12 = 187$ $187 + 215 = 402$ $187 + 402 = 589$
Q12	$\frac{1}{2} \times 6 \times 11 = 33$ $\frac{1}{2} \times 8 \times 8 = 32$ $33 + 32 = 65 \text{ cm}^2$
Q13	$3 \times 3 + 5 \times 2 = 19$ $760 \div 19 = \$40$ $\$40 \times 5 = \200
Q14	a) $2U + 12 + 6U + 2U + 12 = 10U + \24 $144 - 24 = 120$ $120 \div 10 = 12$ $12 \times 2 + 12 = \$36$ b) $12 \times 2 = \$24$

	$120 \div 24 = 5$ $5 + 3 = 8$
Q15	a) $70\% \times 850 = \$595$ b) $595 \times 107\% = \$636.65$
Q16	$4 \times \$3.15 = \12.60 $7 \times 4.70 = \$32.90$ $\$53.60 - 32.90 - 12.60 = \8.10 $8.10 \div 3 = \$2.70$
Q17	$12 + 36 + 12 = 60$ $60 \times 5 = 300$ $300 + 60 = 360$ $360 \div 3 = 120$ $120 \times 5 = 600$ $600 + 240 = \$840$

4
2ND