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MINISTRY OF EDUCATION BAHAMAS JUNIOR CERTIFICATE EXAMINATION 2018

0044 MATHEMATICS

PAPER 1 (50 Marks)

Thursday **31 MAY 2018** 9:00 A.M.–10:00 A.M.

INSTRUCTIONS TO CANDIDATES:

Write your school number, candidate number as well as your Initial(s) and Surname in the spaces provided on this question booklet.

Answer **ALL** questions in the spaces provided on this question booklet.

ALL working must be shown.

The use of calculators, tables or other calculation aids is **NOT** allowed.

ALL working is to be done in **blue** or **black ink**. Working and answers written in pencil, **except constructions and graphs**, may not be marked.

ALL diagrams are not drawn to scale unless otherwise indicated.

The mark for each question, or part question, is shown in brackets [].



This question paper consists of 7 printed pages and 1 blank page.

Answer **ALL** questions in the spaces provided. Show **ALL** necessary working.

1. (a) $\begin{array}{r} 1465 \\ + 793 \\ 21 \\ \hline \end{array}$ [1]	(b) $\begin{array}{r} 9718 \\ - 5267 \\ \hline \end{array}$ [1]
---	---

2. (a) $\begin{array}{r} 9081 \\ \times 7 \\ \hline \end{array}$ [1]	(b) $6 \overline{)8238}$ [1]
--	--

3. (a) Express $\frac{7}{100}$ as a decimal.

Answer: _____ [1]

4. State the value of the digit 5 in the number 8053.

Answer: _____ [1]

5. One book costs \$8.52. Calculate the cost of 6 such books.

Answer: _____ [2]

6. A boy leaves home at 7:58 a.m. and arrives at school at 8:20 a.m. How long did it take him to arrive at school?

Answer: _____ [2]

7. Write the next two numbers in the sequence 3, 7, 11, _____, _____

Answer: _____ [2]



8. The prime factors of a number are $2 \times 2 \times 2 \times 5 \times 5$.

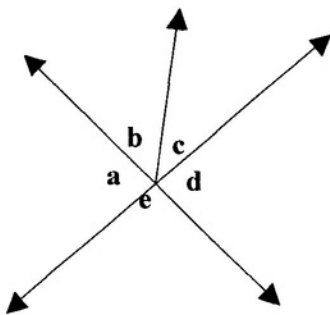
(a) Express this in index form.

Answer: _____ [2]

(b) What is the number?

Answer: _____ [1]

9.



(a) In the figure above, state the total value of angles $\hat{a} + \hat{b} + \hat{c} + \hat{d} + \hat{e}$

Answer: _____ [1]

(b) If angle $b = 35^\circ$, what is the total value of angles $\hat{c} + \hat{d}$?

Answer: _____ [2]

10. Carl scored 14 out of 20 marks on a mathematics quiz.

(a) Express his score as a fraction.

Answer: _____ [1]

(b) Write his score as a percentage.

Answer: _____ [2]



11. Use your ruler, pencil and protractor to draw $\widehat{PQR} = 65^\circ$

[3]

-
12. From the set of numbers, {12, 13, 14, 15, 16}, list:

- (a) a prime number,

Answer: _____ [1]

- (b) a factor of 28,

Answer: _____ [1]

- (c) a multiple of 5.

Answer: _____ [1]



13.



16 inch Stand Fan

STORE A
\$48.62



STORE B
\$38.98

- (a) Which store has the better buy?

Answer: _____ [1]

- (b) Calculate the difference in price of the fan between the two stores.

Answer: _____ [2]

-
14. (a) Calculate the value of $2\frac{1}{2} \times \frac{9}{10}$.

Answer: _____ [3]

- (b) Express your answer in (a) as a mixed fraction.

Answer: _____ [1]



15. (a) Simplify

(i) $8x + 4x - 5x$

Answer: _____ [1]

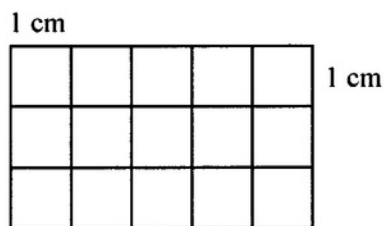
(ii) $4 \text{ m} \times 3 \text{ m}^2$

Answer: _____ [2]

(b) If $p = 16$, calculate the value of $4(p - 2)$

Answer: _____ [3]

16. This is a picture of a window.



Calculate

(a) the perimeter of the window.

Answer: _____ [2]

(b) the area of the window.

Answer: _____ [2]

17. (a) Complete the following bill.

Item	Unit Price	Total
3 tins of Soup	\$1.09 each	
1 loaf bread	\$3.19 each	
4 packs of cookies	2 packs for \$2.39	
	TOTAL:	

[4]

- (b) Calculate the change from \$12.

Answer: _____ [2]

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TOTAL MARKS	

SCHOOL No.	CANDIDATE No.
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MINISTRY OF EDUCATION BAHAMAS JUNIOR CERTIFICATE EXAMINATION 2018

0044 MATHEMATICS

PAPER 2 (100 Marks)

Monday **4 June 2018** 9:00 A.M.–11:00 A.M.

INSTRUCTIONS TO CANDIDATES

Write your school number, candidate number as well as your Initial(s) and Surname in the spaces provided on this question booklet.

Answer **ALL** questions in the spaces provided on this question booklet.

ALL working must be shown.

The use of calculators, tables or other calculation aids is **NOT** allowed.

ALL working is to be done in **blue** or **black ink**. Working and answers written in pencil, **except constructions and graphs**, may not be marked.

ALL diagrams are not drawn to scale unless otherwise indicated.

The mark for each question, or part question, is shown in brackets [].



This question paper consists of **13** printed pages and **3** blank pages.

1. How many degrees are in one $\frac{1}{3}$ of a revolution?

Answer: _____ [2]

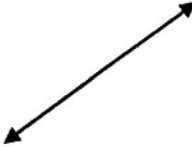
2. Write the numbers -5 ; 0 ; 10 and -13 from least to greatest.

Answer: _____ [2]

3. A box contains 8 cans of peas. The total weight of the 8 cans is 85.6 grams.
Calculate the weight of one can of peas.

Answer: _____ [2]

4. Add another line to each of the lines below so that the two lines are:

PARALLEL	PERPENDICULAR	INTERSECTING
		

[3]

5. The Smith family travelled on 1st January, 2017 and were away for 3 weeks and 4 days.

January 2017						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

- (a) On which **date** did the Smith family return?

Answer: _____ [1]

Brian, a family friend, fed the dog starting from 6th January until 17th January.

- (b) How many days did Brian feed the dog?

Answer: _____ [1]

Mr. Jones travelled on 2nd February 2017. What day of the week did he travel?

Answer: _____ [1]

6. Subtract 89 from the sum of 247 and 193.

Answer: _____ [4]

7. Tiffany had 150 minutes of recording time on a CD. She used 65 minutes for her school project.

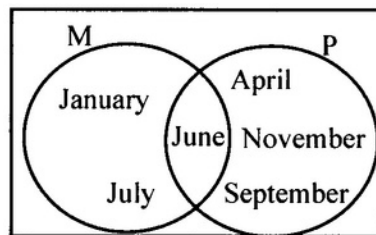
(a) How many minutes of recording time does she have left on the CD?

Answer: _____ [2]

(b) Express your answer in (a), in hours and minutes.

Answer: _____ [2]

8. Use the Venn diagram below to answer the following questions.



(a) List the members of M.

Answer: { _____
_____ } [1]

(b) Describe the members of M.

Answer: { _____
_____ } [2]

(c) List the members of

(i) $M \cup P$,

Answer: { _____
_____ } [2]

(ii) $M \cap P$.

Answer: { _____ } [1]

(d) State the number in $n(P)$.

Answer: _____ [1]



9. (a) Find the value of: $2\frac{3}{4} + 5\frac{1}{8} - 3\frac{1}{2}$

Answer: _____ [5]

- (b) Express your answer from (a) as a decimal.

Answer: _____ [2]

-
10. The number of students in grade 9 at Grand Heights School is 120 students.

The ratio of boys to girls is 2:3.

- (a) How many boys are in the school?

Answer: _____ [3]

There are 105 students in grade 8.

- (b) Write the ratio of grade 8 to grade 9 students in its lowest terms.

Answer: _____ [2]



11. (a) Using a pair of compasses, pencil and ruler ONLY, construct triangle PQR with $PQ = 8$ cm, $PR = 10$ cm and $\angle QPR = 60^\circ$

[5]

- (b) Measure and write down

- (i) the length of QR

Answer: _____ [1]

- (ii) the size of $\angle QRP$

Answer: _____ [1]



12. Mike buys 10 jars of peanuts. He finds that each jar contains the following amount of peanuts:

50, 52, 54, 52, 56, 50, 54, 49, 54, 56

- (a) What is the modal amount of peanuts?

Answer: _____ [1]

- (b) Determine the median amount of peanuts.

Answer: _____ [3]

- (c) Calculate the mean number of peanuts in the jars.

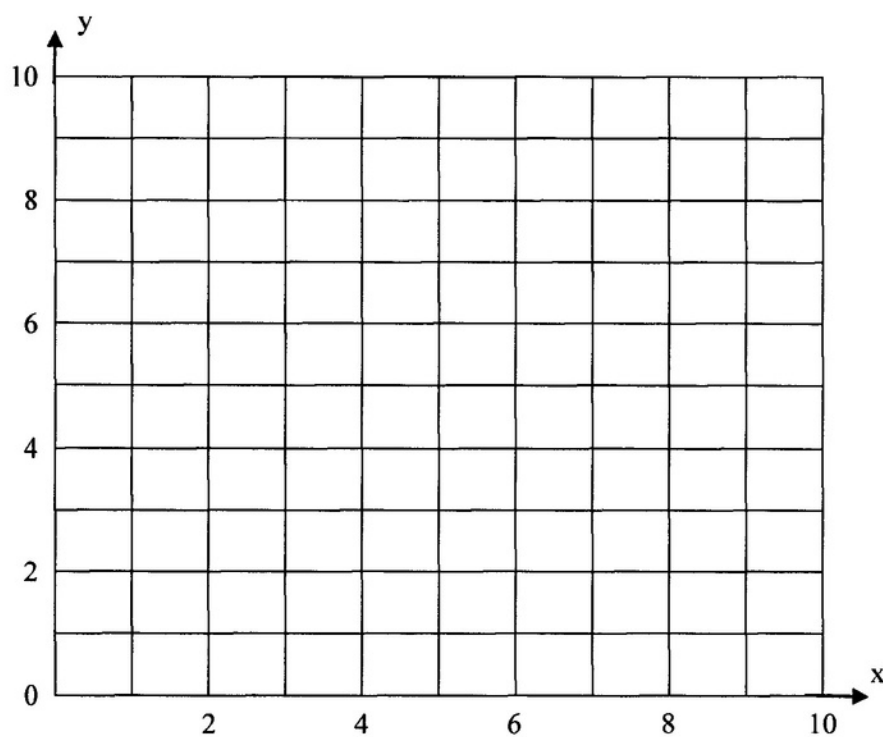
Answer: _____ [3]

- (d) Write your answer in (c), correct to the nearest whole number.

Answer: _____ [1]



13.

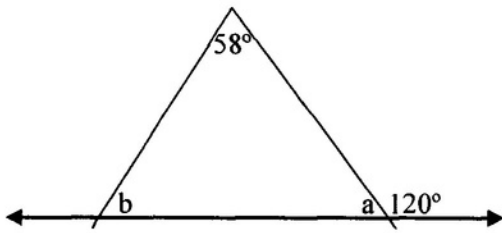


- (a) Draw and label rectangle ABCD with $A(2, 1)$, $B(5, 1)$, $C(5, 3)$, $D(2, 3)$. [4]
- (b) Move rectangle ABCD 2 units to the right and 4 units up. [2]
- (c) Label the new triangle $A_1B_1C_1D_1$. [1]
- (d) State the coordinates of B_1 .

Answer: _____ [2]



14.



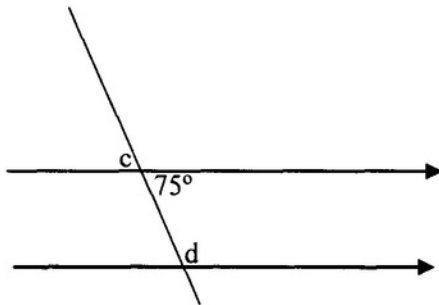
Find the value of

(a) $\hat{a}$

Answer: _____ [2]

(b) $\hat{b}$

Answer: _____ [2]

(c) $\hat{c}$

Answer: _____ [1]

(d) $\hat{d}$

Answer: _____ [2]

15. Aaron and Peter are both plumbers. Aaron earns \$2 340 a month.

(a) Calculate Aaron's yearly salary.

Answer: _____ [3]

Peter earns \$540.05 per week.

(b) Calculate Peter's yearly salary.

Answer: _____ [4]

(c) Who earns more money and by how much?

Answer: _____
_____ [2]



17. A basket contains oranges and mangoes. There are x oranges in the basket. There are twice as many mangoes as oranges in the basket.

(a) Write an expression to represent how many mangoes are in the basket.

Answer: _____ [1]

(b) Write an expression to show how many oranges and mangoes are in the basket.

Answer: _____ [2]

There are a total of 15 oranges and mangoes in the basket.

(c) Form an equation, and solve it to find the value of x .

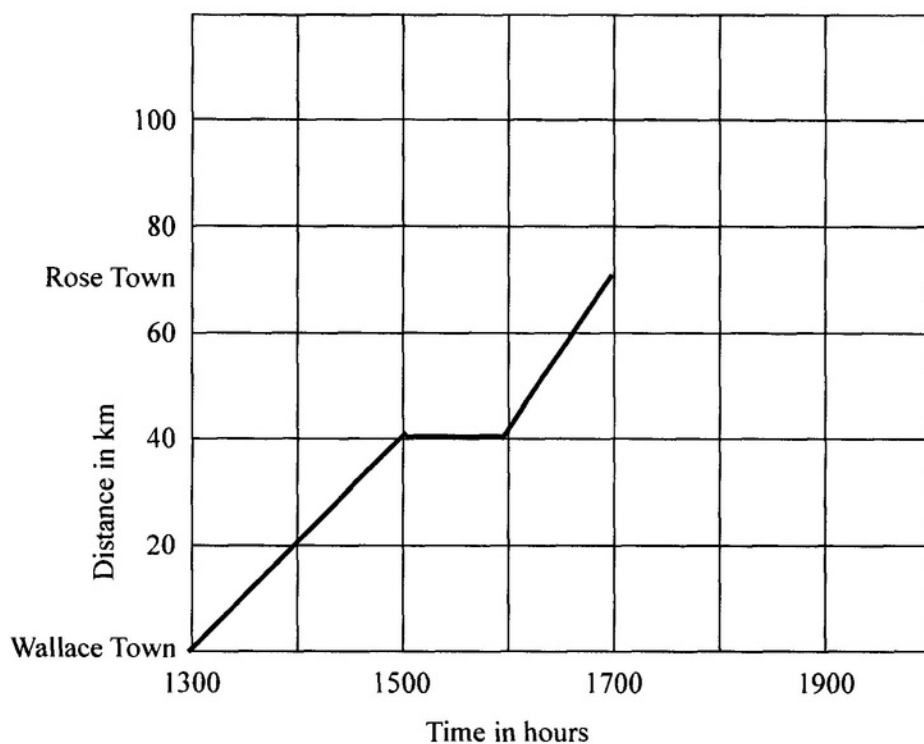
Answer: _____ [3]

(d) How many mangoes are in the basket?

Answer: _____ [2]



16. The travel graph below shows Mr. Brown's drive from Wallace Town to Rose Town. He leaves Wallace Town at 1300 hours and stops for Lunch on his way to Rose Town.



- (a) How far is Wallace Town from Rose Town?

Answer: _____ [1]

- (b) How long did the journey take?

Answer: _____ [1]

- (c) How long did Mr. Brown stop for lunch?

Answer: _____ [1]

- (d) Calculate the average speed of the entire journey.

Answer: _____ [2]



18. The sale price of a car is \$15 200. A 10% discount is being offered for paying cash. The car can also be purchased by making 24 payments of \$755 each.

(a) Calculate the amount of the cash discount.

Answer: _____ [2]

(b) What is the cash price of the car?

Answer: _____ [2]

(c) Find the cost of the car if the payment plan is used.

Answer: _____ [2]

(d) How much money would be saved by paying cash?

Answer: _____ [2]



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