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**MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE
EXAMINATION 2008**

0044 MATHEMATICS

PAPER 2 (100 MARKS)

Tuesday 3 June 2008 9.00–11.00 AM.

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 the question booklet.

ALL working must be shown.

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

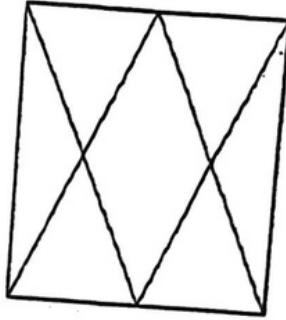
ALL working is to be done in **blue or black ink**. Working and answers written in pencil, except constructions and graphs, may not be marked.

ALL diagrams are not drawn to scale unless otherwise indicated.

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

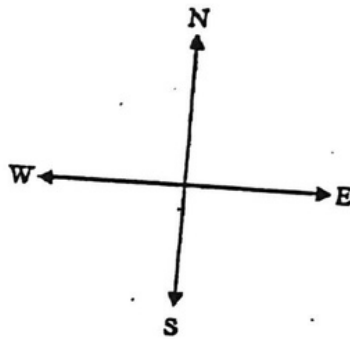
Answer ALL questions. Show ALL necessary working.

1. Shade all the right-angled triangles represented on the rectangle below.



[1]

2.

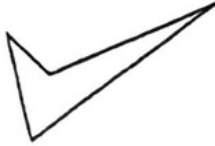


Pamela is facing west. She turns anti-clockwise for $\frac{3}{4}$ of a revolution. In which direction is she now facing?

Answer: _____

[1]

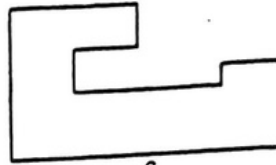
3. Write the letter of the shape that has a line of symmetry.



a



b



c

Answer: _____

[1]

4.



A bookstore bought 450 copies of a text book. The chart shows the weekly sales of that text book.

Week	Number of copies sold
1	95
2	126
3	83

Calculate the number of text books that were left after the three weeks of sales.

Answer: _____

[2]

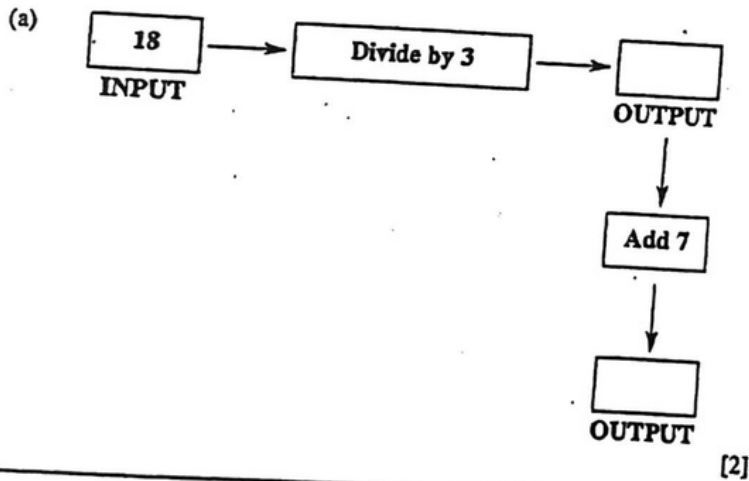
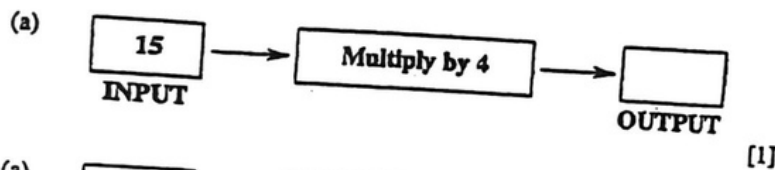
5. The prime factorization of a certain number is $2 \times 2 \times 3 \times 3 \times 5$.
- (a) Express this in index form.

Answer: _____ [1]

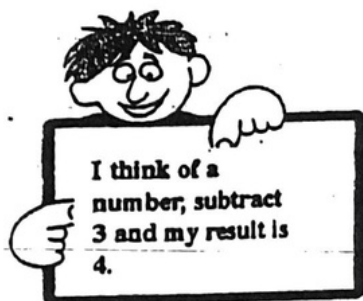
- (b) What number does this represent?

Answer: _____ [1]

6. Complete the flow chart by putting the correct number in the OUTPUT box.



7.



Let y represent the unknown number.

- (a) Write an equation to represent the above information.

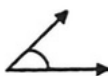
Answer: _____ [1]

- (b) Solve your equation to find the unknown number.

Answer: _____ [2]

8. Look at the angles below. Estimate a possible size of each of the angles.

(a)



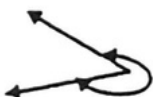
(b)



NOT TO
SCALE

Answer: _____ ° [1] Answer: _____ ° [1]

(c)



Answer: _____ ° [1]

9.



A shopkeeper has 1200 pounds of sugar and 475 pounds of salt. He wants to pack these items in 5 pound bags. Calculate the number of 5 pound bags he needs for packaging.

Answer: _____ [3]

10.



Mr. Jones is baking a cake which calls for the following ingredients:
 $\frac{3}{4}$ pound of walnuts
 $1\frac{1}{2}$ pounds of almonds
 $\frac{1}{4}$ pound of pecans.

- (a) How many pounds of nuts are needed?

Answer: _____ pounds [2]

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

Answer: _____ [1]

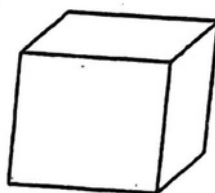
11. Use the given list to identify the solids below.

CUBOID PRISM HEMISPHERE CYLINDER

(a)



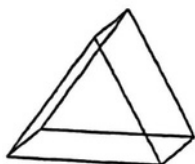
(b)



Answer: _____ [1]

Answer: _____ [1]

(c)



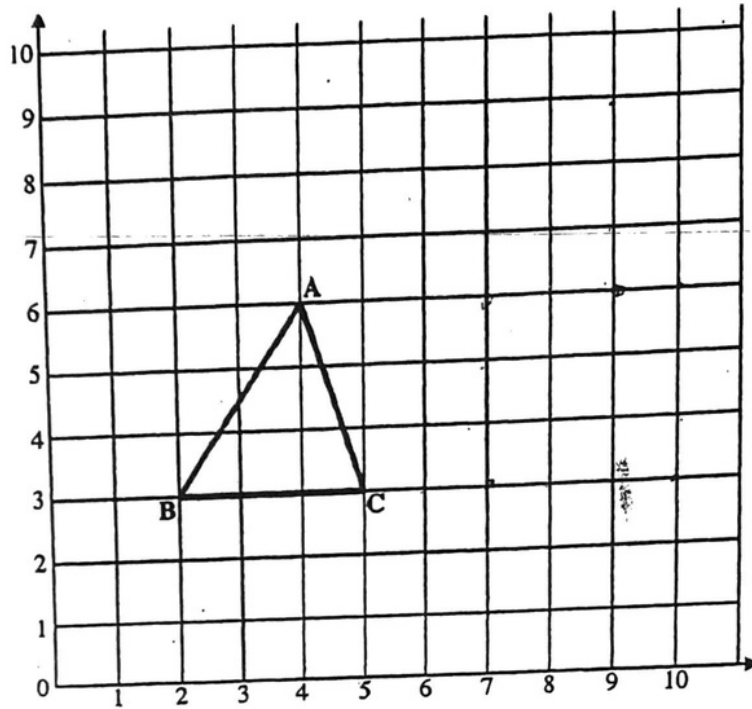
(d)



Answer: _____ [1]

Answer: _____ [1]

12.



(a) Move each point in $\triangle ABC$ 5 places to the right and 3 places up. [3]

(b) Name the image $A_1B_1C_1$. [1]

13.



6 boxes of cookies weigh 468 g.

- (a) Calculate the weight of one box of cookies.

Answer: _____ g [2]

The cookies cost \$42.00 altogether.

- (b) Calculate the cost of one box of cookies.

Answer: \$ _____ [1]

- (c) How many boxes of cookies can be bought with \$120.00?

Answer: _____ boxes [2]

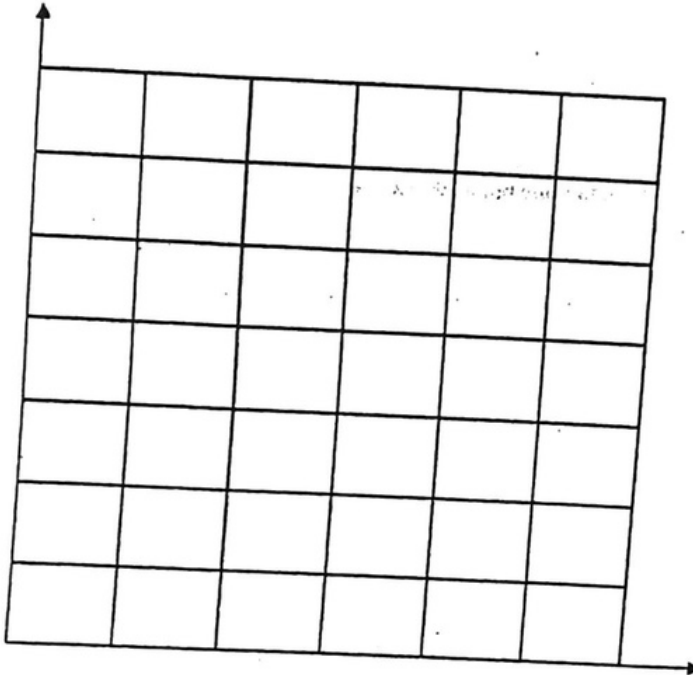
14.



- (a) Construct an angle of 60° at B. [2]
- (b) Draw the line BC 6 cm long. [1]
- (c) Join A to C to form $\triangle ABC$. [1]
- (d) Give the special name for $\triangle ABC$.

Answer: _____ [1]

15. (a) Plot, label and join, in order, the given points A, B, C and D on the grid.
- A (1,1) B (4,0) C (4,6) D (1,3)



[5]

- (b) Write the geometrical name of this quadrilateral.

Answer: _____ [1]

16.



Angie weighed 140 pounds. She lost 7 kg while on a diet. If $1 \text{ kg} \approx 2$ pounds,

- (a) How many pounds did she lose?

Answer: _____ lbs. [2]

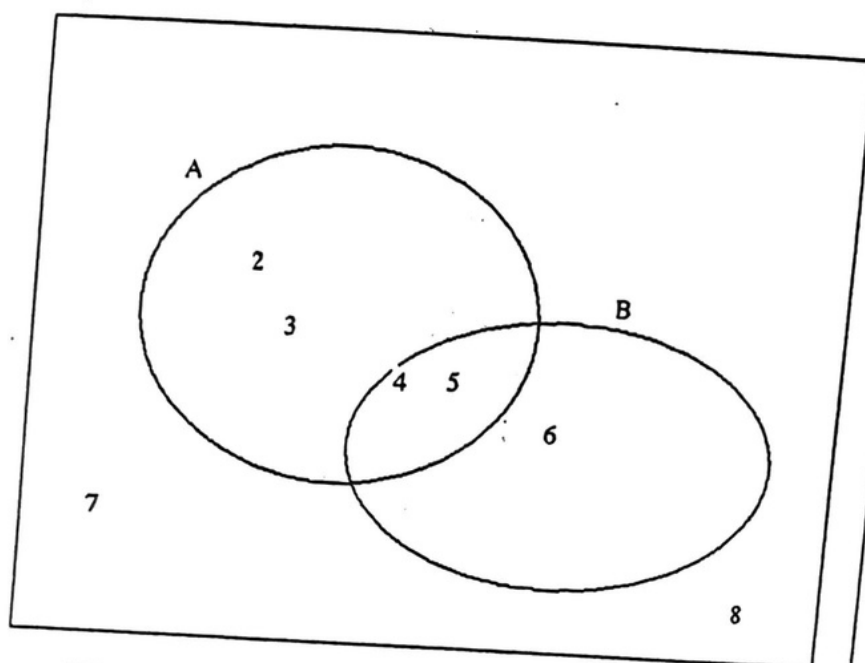
- (b) Calculate, in pounds, Angie's new weight.

Answer: _____ lbs. [2]

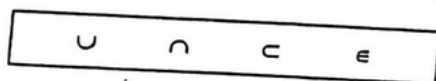
- (c) What percentage of her original weight did she lose?

Answer: _____ % [2]

17. Study the Venn diagram below.



Using each symbol only once, fill in the blanks to make a true statement.



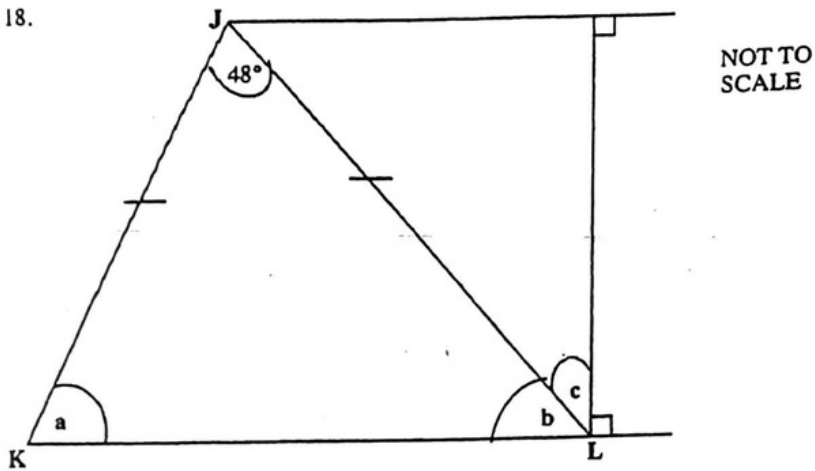
- (a) (i) $A \underline{\hspace{1cm}} B = \{4,5\}$ [1]
 (ii) $\{2,3\} \underline{\hspace{1cm}} A$ [1]
 (iii) $A \underline{\hspace{1cm}} B \{2,3,4,5,6\}$ [1]
 (iv) $4 \underline{\hspace{1cm}} B$ [1]
- (b) From the Venn diagram,
 write down $n(B)$.

Answer: _____ [1]

- (ii) List the members of $(A \cup B)'$

Answer: _____ [2]

18.



- (a) Calculate the size of $\angle a$.

Answer: _____° [3]

- (b) Write down the size of $\angle b$.

Answer: _____° [1]

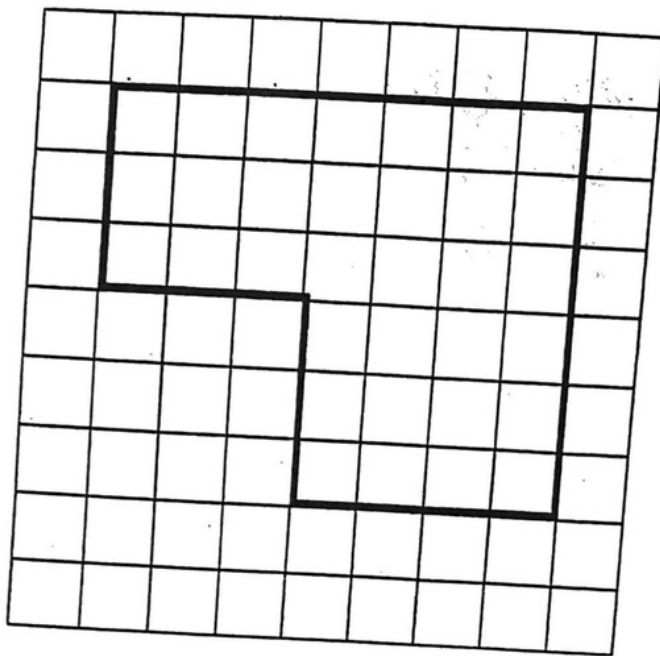
- (c) Give the geometrical name for triangle JKL.

Answer: _____ [1]

- (d) How many degrees are there in $\angle c$?

Answer: _____° [2]

19.



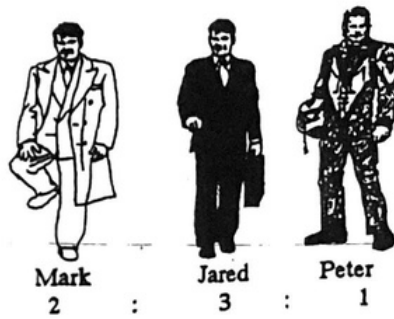
- (a) How many units is the measure of each line in the hexagon drawn above? Write your answer on each line ON THE DIAGRAM. [3]
- (b) Find the perimeter of the hexagon.

Answer: _____ units [2]

- (c) What is the area of the hexagon in square units?

Answer: _____ units² [2]

20.



Mr. Johnson shared \$8000 among his three sons, Mark, Jared and Peter, in the ratio 2:3:1 respectively.

- (b) How much money did Jared receive?

Answer: \$ _____ [3]

Jared invested his money at 8% simple interest for 2 years.

- (b) (i) Calculate the interest earned.

Answer: \$ _____ [2]

- (ii) Calculate the amount of money Jared had at the end of the 2 year period.

Answer: \$ _____ [2]

21. Mrs. Cash ordered the following items from a catalogue. She pays upon delivery.

Calculate her total bill.

ITEMS	\$	¢	
5 shirts @ \$15.00 each			2
1 jacket @ \$42.99			1
10 ties @ 2 for \$5			2
Delivery charge \$16.14			1
Total			1

She gave the delivery men \$170 and told him to keep the change as a tip.

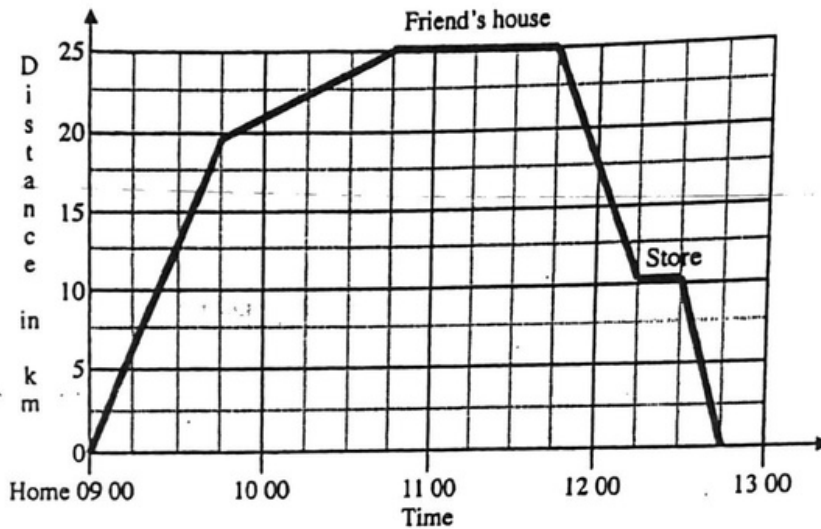
- (b) (i) How much did the delivery man receive for his tip?

Answer: \$ _____ [2]

- (ii) Round your answer from (b)(i) to the nearest dollar.

Answer: \$ _____ [1]

22.



Kevin rode his bike from his home to a friend's house. On the way, he had a flat tyre.

- (a) (i) How many minutes after he left home did he have the flat tyre?

Answer: _____ mins. [1]

- (ii) Write the answer as a fraction of an hour.

Answer: _____ hr. [1]

He then walked the rest of the way to his friend's house.

- (b) How far did he walk to get to his friend's house.

Answer: _____ km. [1]

At his friend's house, he repaired the tyre, played video games, then left.

- (c) How long did Kevin stay at his friend's house?

Answer: _____ [1]

On the way home, Kevin stopped at a shop.

- (d) How far is it from his friend's house to the shop?

Answer: _____ km. [1]

- (e) Calculate his average speed after he left his friend's house for the store.

Answer: _____ km/hr [1]

- (f) What was the total time Kevin stopped during the entire journey?

Answer: _____ km. [1]