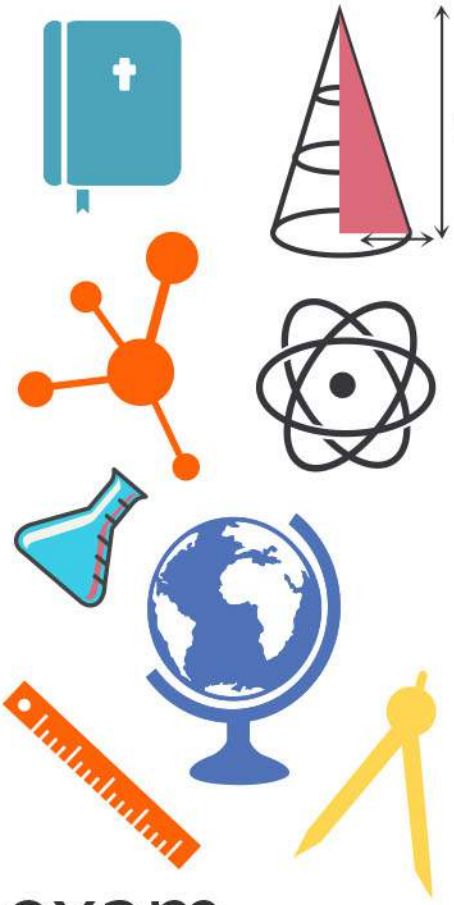

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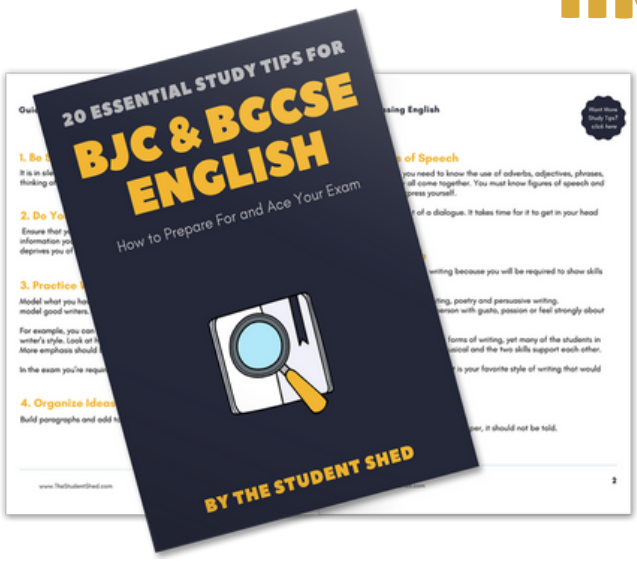

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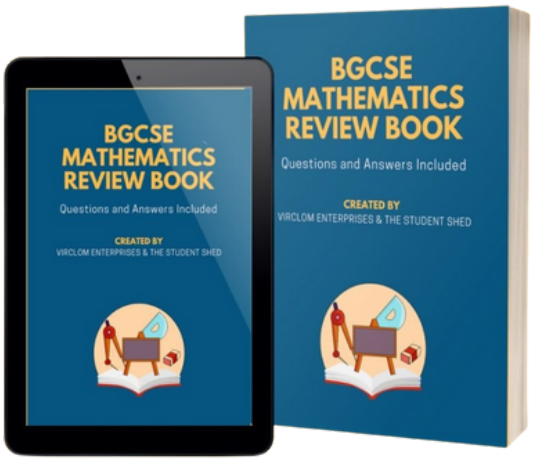

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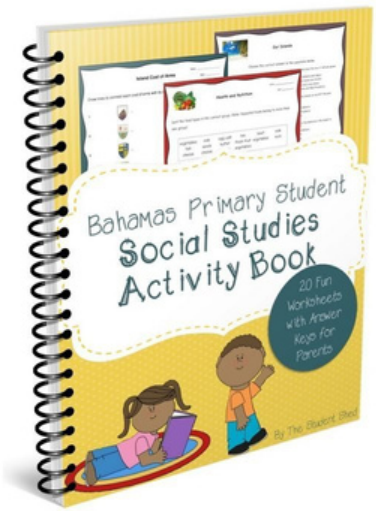

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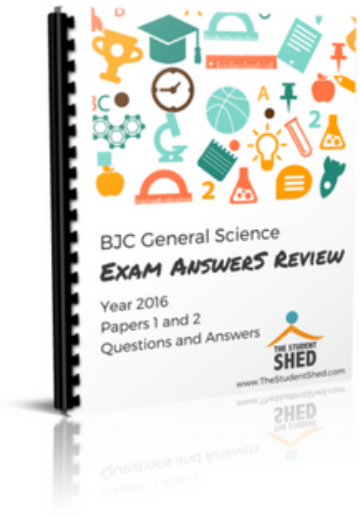

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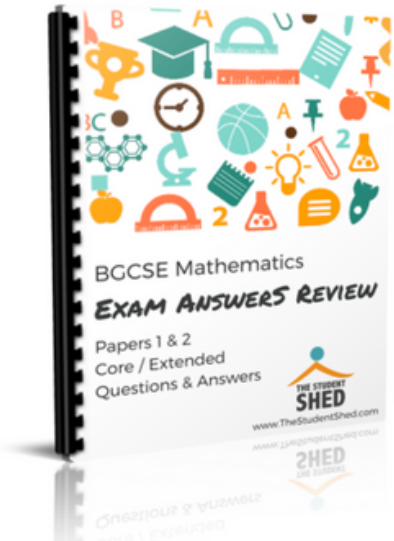

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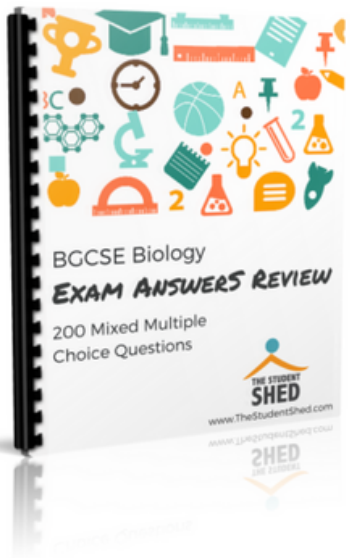

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0044/1 BJC

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TOTAL	

SCHOOL No.	CANDIDATE No.
INITIALS	SURNAME

MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE EXAMINATION 2022

0044 MATHEMATICS

PAPER 1 (50 Marks)

Monday **13 JUNE 2022** 9:00 A.M.–10:00 A.M.

INSTRUCTIONS TO CANDIDATES:

Do not open this booklet until you are told to do so.

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 in this question booklet.

ALL working must be shown.

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

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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 **8** printed pages.

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ROUGH WORK

1. (a)
$$\begin{array}{r} 3205 \\ 973 \\ +\ 87 \\ \hline \\ \hline \end{array}$$

Answer: _____ [1]

(b)
$$\begin{array}{r} 6952 \\ -\ 741 \\ \hline \\ \hline \end{array}$$

Answer: _____ [1]

2. (a)
$$\begin{array}{r} 596 \\ \times\ 4 \\ \hline \\ \hline \end{array}$$

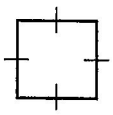
Answer: _____ [1]

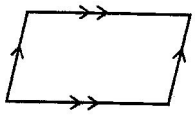
(b) $6\overline{)486}$

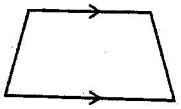
Answer: _____ [1]

3. Using the words in the box below, name each of the given shapes.

Trapezium	Square	Kite	Parallelogram







(a) _____ (b) _____ (c) _____

[3]

ROUGH WORK

4. Mrs. Smith left home at 1:15 pm.
She returned home at 3:45 pm.

Calculate the length of time she was away from home.

Answer: _____ [2]

---

5. Express

(i) $\frac{3}{5}$ as a decimal,

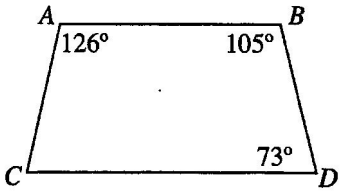
Answer: _____ [2]

(ii) 0.145 as a percent.

Answer: _____ [2]

---

6. *ABCD* is a quadrilateral. Calculate the size of angle C.



NOT TO SCALE

Answer: _____ ° [3]

ROUGH WORK

7. (a) Express 40 as a product of its prime factors.

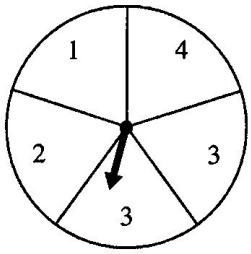
Answer: _____ [2]

(b) Write your answer from (a) in index form.

Answer: _____ [1]

---

8. Olivia spins the wheel below once.



Find the probability that it stops on:

(i) the number 3, _____ [1]

(ii) a multiple of 4, _____ [1]

(iii) the number 5, _____ [1]

(iv) a square number. _____ [1]

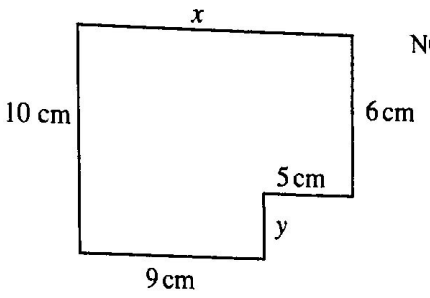
---

9. Complete the sequences below.

▲●■, ●■▲, _____ [1]

ROUGH WORK

10. Study the diagram below



NOT TO SCALE

(a) Find the length of

(i) x

Answer: _____ cm [1]

(ii) y

Answer: _____ cm [1]

(b) Calculate the perimeter of the shape.

Answer: _____ cm [2]

---

11. Shade $\frac{3}{4}$ of the triangles below.

[2]

ROUGH WORK

12. The diagram below shows the calendar month of August.

Study it and then answer the questions that follow.

AUGUST 2022						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	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			

Emancipation Day is celebrated on the first Monday of the month.

(i) State the date of Emancipation Day.

Answer: _____ [1]

Mr. Rolle's birthday is on the 11th of August.

(ii) Write the day of Mr. Rolle's birthday.

Answer: _____ [1]

He plans to celebrate his birthday on the third Saturday in August.

(iii) Find how many days after his birthday does he have to wait.

Answer: _____ [1]

Teachers return to school on August 29th. Students return one week later.

(iv) Write the date the students return to school.

Answer: _____ [1]

---

13. Write the number that is one hundred less than 2736.

Answer: _____ [1]

ROUGH WORK

14. (i) Simplify the following expression.

$3x + 8x - 12x$

Answer: _____ [1]

(ii) If $p = 6$, find the value of $p^2 + 7$.

Answer: _____ [3]

(iii) Solve for q:

$12q - 1 = 35$

Answer: _____ [2]

---

15. A book has 450 pages.
Karen has read 20% of the book.

Calculate how many pages she has **not** read.

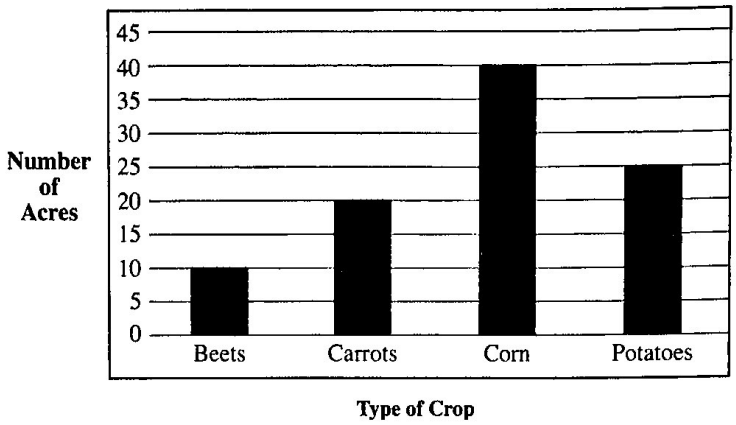
Answer: _____ [3]

16. Farmer Brown has 100 acres of land.

ROUGH WORK

The bar graph below shows the number of acres used for some crop.

Crops Planted by Farmer Brown



(a) State the number of acres used for corn.

Answer: _____ [1]

(b) State the crop which used the least number of acres.

Answer: _____ [1]

(c) Calculate how many more acres of potatoes were planted than beets.

Answer: _____ [2]

Farmer Brown wants to plant some cabbage.

(d) Find how many acres are available for him to plant the cabbage.

Answer: _____ [2]

End

0044/2 BJC

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INITIALS	SURNAME

MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE EXAMINATION 2022

0044 MATHEMATICS

PAPER 2 (100 Marks)

Wednesday **15 JUNE 2022** 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 in 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 for 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 14 printed pages and 2 blank pages.

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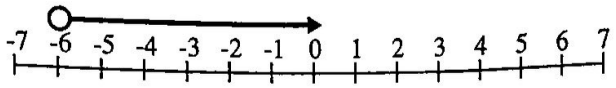
ROUGH WORK

1. Using the letter x write the inequality for the graph below.



Answer: _____ [2]

2. Approximate the number 245. 547 correct to:

(a) one decimal place, Answer: _____ [1]

(b) the nearest whole number, Answer: _____ [1]

(c) two significant figures. Answer: _____ [1]

3. Evaluate.

$$45 \div (8 - 3) + 6$$

Answer: _____ [3]

4. (i) 5 apples cost $3.20.

Calculate the cost of 8 similar apples.

Answer: _____ [2]

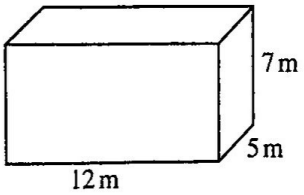
(ii) 6 men take 18 days to build a wall.

Calculate the amount of time 9 men will take working at the same rate.

Answer: _____ [2]

ROUGH WORK

5. The diagram shows a water tank. The tank is in a shape of a cuboid.



(i) Find the volume of the tank.

Answer: _____ m^3 [2]

(ii) If $1 m^3 = 1000$ litres, calculate how many litres of water it takes to fill the tank.

Answer: _____ litres [2]

ROUGH WORK

6. The original price of a bag is \$140.

A discount is given and the price drops to \$105.

(i) Find the amount of the discount given.

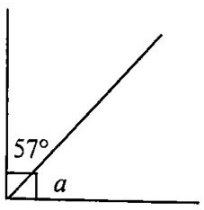
Answer: _____ [1]

(ii) Express the discount as a percentage of the original price.

Answer: _____ [2]

7. Calculate the missing angles.

(i)

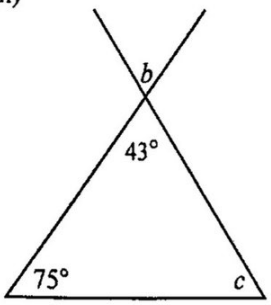


NOT TO SCALE

Answer: a = _____ ° [2]

ROUGH WORK

(ii) NOT TO SCALE



Answer: $b =$ _____ ° [1]

Answer: $c =$ _____ ° [2]

---

8. Travis and Bradley share 140 baseball cards in the ratio 4:3.

(a) Calculate the amount of cards Travis receives.

Answer: _____ [3]

(b) Bradley gave $\frac{2}{3}$ of his cards to Justin.

Calculate the amount of cards Justin received.

Answer: _____ [3]

ROUGH WORK

6. The original price of a bag is $140.

A discount is given and the price drops to $105.

(i) Find the amount of the discount given.

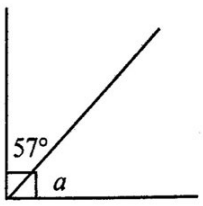
Answer: _____ [1]

(ii) Express the discount as a percentage of the original price.

Answer: _____ [2]

7. Calculate the missing angles.

(i) NOT TO SCALE



Answer: a = _____ ° [2]

ROUGH WORK

9. The cash price of a television is $650.
It is sold on hire purchase with a 10% down payment followed by 6 equal payments of $120.

Calculate the:

(i) amount of the down payment.

Answer: $ _____ [2]

(ii) total amount of the monthly payments.

Answer: $ _____ [2]

(iii) total cost of the television on the hire purchase plan.

Answer: $ _____ [2]

(iv) amount saved by paying cash.

Answer: $ _____ [1]

ROUGH WORK

10. The weight of 5 boxes is 340 g, 345 g, 350 g, 350 g and 355 g.

(i) State the modal weight of the boxes.

Answer: _____ g [1]

(ii) Determine the median weight of the boxes.

Answer: _____ [1]

(iii) Calculate the mean weight of the boxes.

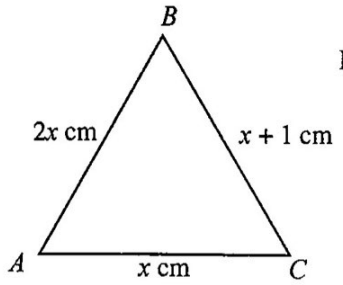
Answer: _____ [3]

(iv) Express the weight of the heaviest box in kilograms

Answer: _____ [2]

ROUGH WORK

11. The sides of a triangle are x cm, $2x$ cm and $x + 1$ cm.



(a) The perimeter of the triangle is 49 cm.

Form an equation to represent this.

Answer: _____ [2]

(b) Solve your equation to find the value of x.

Answer: _____ [3]

(c) State the length of the sides:

AB = _____ cm [1]

BC = _____ cm [1]

ROUGH WORK

12. $\varepsilon = \{1, 2, 3, 4, 5, 6, 7, 8\}$

$A = \{2, 4, 6, 8\}$

$B = \{\text{factors of } 8\}$

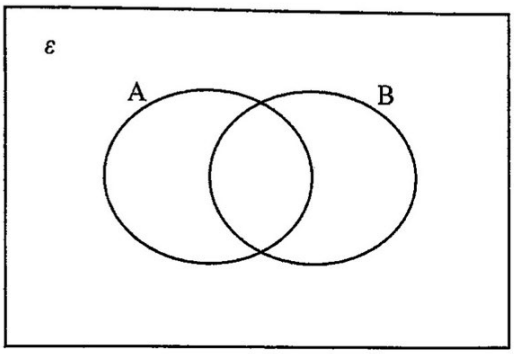
(a) Describe set A.

Answer: _____ [2]

(b) List the members of B.

Answer: {_____}[1]

(c) Use the information to complete the Venn diagram below. [4]



(d) State the member(s):

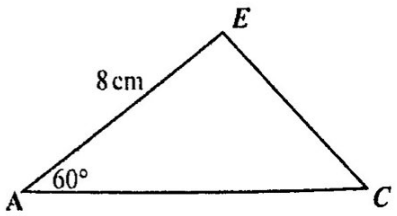
(i) $A \cup B$ Answer: {_____} [1]

(ii) $A \cap B$ Answer: {_____} [1]

(iii) B' Answer: {_____} [1]

ROUGH WORK

13. Below is a sketch of triangle *ACE*.



(a) Using ruler, compasses and pencils only, **construct** triangle *ACE* on the line *AC* above. [6]

(b) Measure and state the size of angle *ACE*.

Answer: _____ ° [1]

(c) Name the type of triangle formed.

Answer: _____ [1]

ROUGH WORK

14. (i) Find the LCM of 3, 4 and 5.

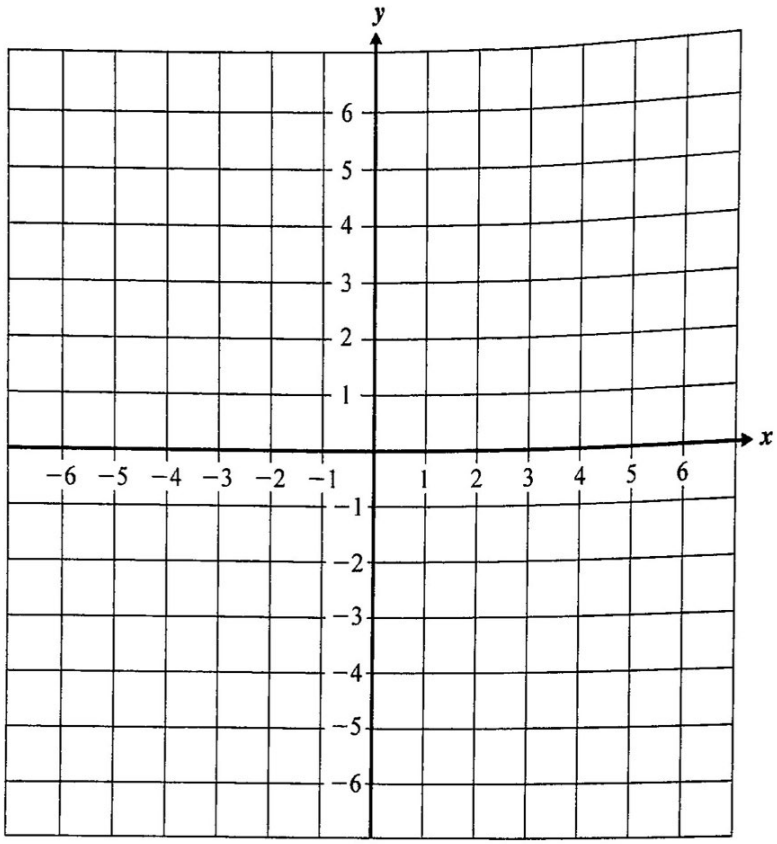
Answer: _____ [2]

(ii) Evaluate $5\frac{1}{5} - 3\frac{3}{4} + 1\frac{2}{3}$

Answer: _____ [3]

ROUGH WORK

15.



(a) Plot and label the following points on the graph above.

$A(-1, 4)$, $B(-1, 1)$, $C(5, 1)$. [3]

(b) A point D is to be plotted to form a rectangle.

Plot and label the point D on the graph above. [2]

(c) State the coordinates of D.

Answer: (_____, _____) [2]

(d) Join all four points to form the rectangle. [1]

ROUGH WORK

16. Ms. Jones is paid $8.50 per hour when she works a basic 40-hour week.

(i) Calculate her basic weekly pay.

Answer: _____ [2]

(ii) Overtime is paid at double time.

Calculate her pay for one hour of overtime.

Answer: _____ [2]

(iii) In a certain week, she works 48-hours.

Find the number of hours of overtime she worked.

Answer: _____ [1]

(iv) Calculate her overtime pay.

Answer: _____ [2]

(v) Calculate the total pay for Ms. Jones 48-hour week.

Answer: _____ [2]

ROUGH WORK

17. (a) Janet bought the following items. Complete the shopping bill below.

Item	Cost	
2 wireless mouse @ $8.99 each	(i) $ _____	[2]
4 flash drives @ 2 for $14.00	(ii) $ _____	[2]
1 hdmi cord @ $19.99	(iiii) $ _____	[1]
TOTAL	(iv) $ _____	[1]

(b) She pays the bill with two 50 dollar notes.

Calculate the amount of change she receives.

Answer: _____ [3]

End]

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