

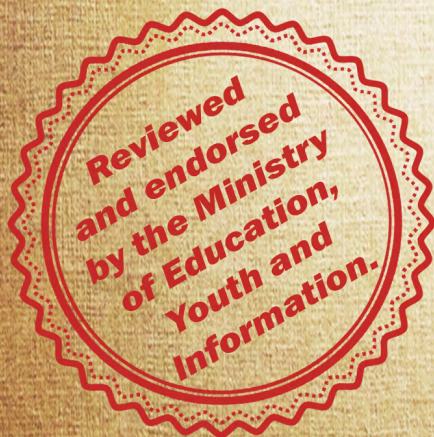


CHEETAH™ Purrrrrrr Publishing

Presents

# PRIMARY EXIT PROFILE (PEP) MATH PRACTICE SAMPLE QUESTIONS

- ✓ Full alignment with National Standards Curriculum (NSC)
- ✓ 5 strands broken down by NSC Terms
- ✓ Curriculum Based Test Items
- ✓ Answers included



Volume 1, November 2018

**Grade 6**

Ornella Bell, Nadine Brown



Practise with me,  
Barky Bark™,  
a Jamaican Math  
Detective.  
Earn Prizes  
and Surprises!

**THIS BOOK BELONGS TO**

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**WHOSE DREAM IS TO BECOME A/AN**

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**DATED**

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## PRIMARY EXIT PROFILE (PEP) MATH PRACTICE QUESTIONS

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*Printed in Kingston, Jamaica.*

**CHEETAH™ SAMPLE**

**PRIMARY EXIT PROFILE (PEP)**

**MATH**

**PRACTICE QUESTIONS**

**WITH ANSWERS**

# NOTE TO STUDENTS, PARENTS AND TEACHERS

We are happy to be providing you with our PEP Math Practice Questions workbook with content that will prepare you for your tests, and more importantly, for real-life situations.

## Arrangement of This Book

The assessment questions in this workbook dovetail with CHEETAH's™ (Connect to Higher Education, Electronic Tools, Application and Help) text book, *The Jamaican Mathematician*, based on the five Mathematics content and process strands specified in the new National Standard Curriculum (NSC). This workbook is also organized by calendar terms, as outlined below:

TERM 1	TERM 2	TERM 3
<b>Number (5 weeks)</b>	<b>Number (4 weeks)</b>	<b>Number (3 weeks)</b>
<ul style="list-style-type: none"> <li>✓ Representation of Sets</li> <li>✓ Number value: exponential form</li> <li>✓ Use of Calculator</li> </ul>	<ul style="list-style-type: none"> <li>✓ Number properties</li> <li>✓ Computing with fractional numbers: addition, subtraction, multiplication and division.</li> <li>✓ Representing shared portions (ratio and percentage).</li> </ul>	<ul style="list-style-type: none"> <li>✓ Problem Solving Procedures</li> </ul>
<b>Measurement (2 weeks)</b>	<b>Measurement (3 weeks)</b>	<b>Measurement (3 weeks)</b>
<ul style="list-style-type: none"> <li>✓ Scale drawing</li> <li>✓ Units of time</li> <li>✓ Perimeter</li> </ul>	<ul style="list-style-type: none"> <li>✓ Units of area and surface area.</li> <li>✓ Derive formulae in measurement situations: volume.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Applying measurement formulae.</li> <li>✓ Parts of a circle.</li> <li>✓ Investigating pi.</li> </ul>
<b>Geometry (3 weeks)</b>	<b>Geometry (2 weeks)</b>	<b>Geometry (1 week)</b>
<ul style="list-style-type: none"> <li>✓ Properties of Geometric shapes (2 D's and 3 D's)</li> </ul>	<ul style="list-style-type: none"> <li>✓ Compare and contrast geometric shapes.</li> <li>✓ Congruence</li> <li>✓ Concept of Reflection within the Cartesian Plane.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Use of protractor.</li> </ul>
	<b>Algebra (2 weeks)</b>	<b>Algebra (1 week)</b>
	<ul style="list-style-type: none"> <li>✓ Using variables: word problems.</li> <li>✓ Using variables: number sentences.</li> <li>✓ Using variables: substitution.</li> <li>✓ Using Patterns and making predictions</li> </ul>	<ul style="list-style-type: none"> <li>✓ Simple equations</li> </ul>
<b>Statistics and Probability (4 weeks)</b>		<b>Statistics and Probability (3 weeks)</b>
<ul style="list-style-type: none"> <li>✓ Collecting and representing data</li> <li>✓ Stem and leaf</li> </ul>		<ul style="list-style-type: none"> <li>✓ Interpreting tables and graphs.</li> <li>✓ Outcomes of an event.</li> </ul>

# Honour System

This workbook includes the answers for the practice questions. We are providing you with these answers based on the “**Honour System**”, which is closely associated with the acts of having a conscience and integrity.

**Honour System** is “an arrangement by which persons are trusted to act honestly and therefore not directly monitored, even though persons might obtain a benefit from acting dishonestly.” (www.yourdictionary.com)

If you choose not to abide by the **Honour System**, then you are cheating yourself. We ask, and expect, that you do not review the answers until after you have attempted the questions. Take our **CHEETAH™ Honour System Pledge** today.



## CHEETAH'S™ HONOUR SYSTEM PLEDGE

I \_\_\_\_\_, of \_\_\_\_\_ school,  
*(Insert your first and last name)* *(Insert name of school)*

Grade \_\_\_\_\_, located at \_\_\_\_\_,  
*(Grade you are currently in)* *(School's address)*

agree to abide by the **Honor System**, as explained in this book. I will act with integrity and a clear conscience.

Sign: \_\_\_\_\_  
*(Your signature. If you don't have one, then create one.)*

Learn with me, Barky Bark®,  
a Jamaican math detective.  
You may be eligible to receive  
prizes and surprises. Join me  
online for more information!  
Have fun while you learn!



“If yuh waan good  
yuh nose haffi run.”

(Jamaican Proverb)



**CHEETAH™ Purrrrrrr Publishing**  
**P R E S E N T S**



# MATH SAMPLE QUESTIONS

**PEP GRADE 6:  
CURRICULUM BASED TEST ITEMS**







Complete the following questions:

1. At a high school, the Performing Arts department does drama and dance. There are 43 students doing drama and 52 doing dance. Each month there is a student meeting of the department. If 21 students do both drama and dance, how many students are at the meeting each month given that everyone attend? Show your calculations below.

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2. If two given sets are  $A = \{a, b, c, d, e, f, i, o, u\}$  and  $B = \{a, e, i, o, u\}$ , what does  $\{a, e, i, o, u\}$  and  $\{a, b, c, d, e, f, i, o, u\}$  represent?

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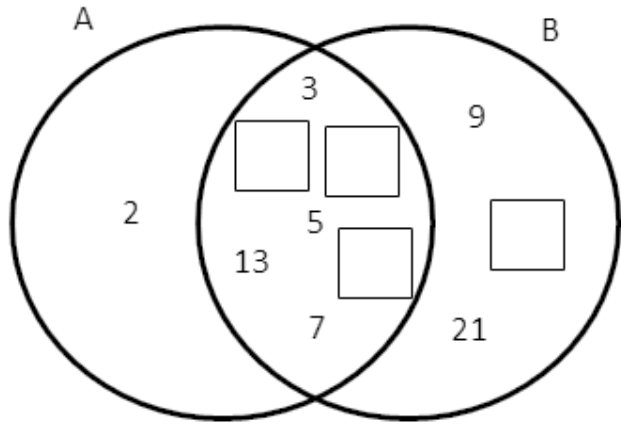
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3. A. Place the numbers 11, 15, 17 & 19 correctly in the boxes below.



B. Describe set A and set B

Set A: .....

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Set B: .....

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4. Mr. William is a member of the Army and believes his children should be fully aware and know how to use the 24 hours clock. Therefore, he got everything in his home along with his television to be programmed using the 24-hour clock.

Jenny, his daughter, got home from school and wanted to watch her favourite television show. She saw the following television schedule:

Show	Time
Stuck in the Middle	16:00 hours – 17:30 hours
Andi Mac	17:30 hours – 18:00 hours
It's a Different World	18:00 hours – 18:45 hours



**A.** How long does ‘Stuck in the Middle last’?

.....

**B.** How long is ‘It’s a Different World’?

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**C.** If Jenny watched all 3 shows in one sitting how long would she have been sitting in front the television?

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**D.** Which show is the shortest?

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**Complete the following questions:**

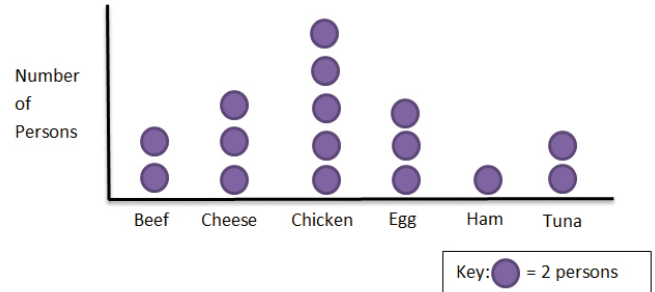
**5. A.** Latoya felt a solid figure in a bag and described one of its characteristics by saying that it had a square face. Which solid could she have picked up?

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**B.** Mathew did the same and said his solid had a flat face. Name the solid he may have picked up.

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**6.** A restaurant conducted a survey to determine the best sandwiches for their breakfast menu. The results are shown in the graph below.



**A.** How many persons were surveyed?

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**B.** How many more persons preferred chicken than beef?

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**C.** State a possible instrument used to collect this data?

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- 10.** A small parking lot permits only bikes and cars to park. One day, there were 72 wheels in the parking lot. If 'p' represents the number of bikes and 'r' represents the number of cars, which two expressions below could be used to represent the number of vehicles in the parking lot that day?
- A.**  $16p + 10r$
  - B.**  $12p + 13r$
  - C.**  $28p + 4r$
  - D.**  $11p + 14r$

- 11.** A joiner (furniture maker) is making three types of stools for a hotel. He is to make some with four legs, some with three legs and some as pedestal seats with only one leg. If there are 45 stool legs in the joiner's shop, show three sets of stools that he can make, providing that he must make at least two of each.
- What are the possible combination of the three types of stools?
- Answer here:

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- 12.** Angella Brown went to The CHEETAH™ Bank of Jamaica on November 15, 2018, to deposit \$110,000 into account # 00035160. She had \$65,000 in cash and the remaining amount as a cheque. Fill out the deposit slip below.

Deposit Slip		
Date _____	CASH	
Name _____	CHEQUES	
Account Number _____		
<b>The Cheetah Bank Jamaica</b>	Subtotal	
	<b>TOTAL</b>	



**13.** Thomas is a cyclist who rides his bicycle three days per week. The table below shows the distance and time he takes to cover the distance each day.

Day	Distance in km	Time in hours
Monday	80	4
Tuesday	63	$3\frac{1}{2}$
Wednesday	75	5

**A.** Which day did Thomas had the fastest speed?

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**B.** Did Thomas speed increase or decrease each day?

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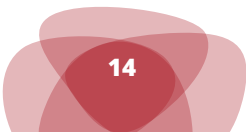
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**P R E S E N T S**

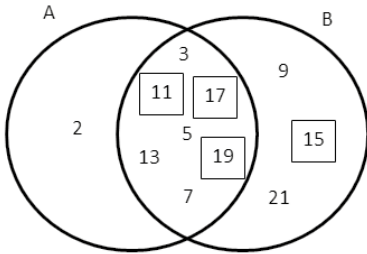


# ANSWERS AND EXPLANATIONS



## PEP MATH PRACTICE QUESTIONS

1. 74 Students
2. Subset and universal set
3. **A.**



- B.** Set A is the set of prime numbers from 2 to 19. Set B is the set of odd numbers from 3 to 21.

4. **A.** one and a half hours  
**B.** 45 minutes  
**C.** 2 hours 45 minutes  
**D.** Andi Mac
5. **A.** A square based pyramid, a cube or a square prism (cuboid).  
**B.** Cylinder (any plausible response)
6. **A.** 32  
**B.** 6  
**C.** Questionnaire or interview
7. B, C & D
8. **A.** 226  
**B.** \$32,770  
**C.** \$42,770
9. No. A line of symmetry folds one half of an object exactly unto its other half. A rectangle has only two such cases. (any plausible answer)
10. A & C
11. Possible answers include but are not limited to the following combinations:

4 Legs	3 Legs	1 Leg
2	11	4
9	2	3
7	5	2

12. Date: November 15, 2018  
Name: Angella Brown  
Account Number: 00035160  
Cash: \$65,000  
Cheque: \$45,000

13. **A.** Monday  
**B.** His speed decrease each day as he covered less distance in each hour.

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## PRIMARY EXIT PROFILE (PEP) MATH PRACTICE QUESTIONS

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These assessment questions in this workbook dovetail with **CHEETAH's™** (**C**onnect to **H**igher **E**ducation, **E**lectronic **T**ools, **A**pplication, and **H**elp) text book, *The Jamaican Mathematician*, based on the five Mathematics content and process strands specified in the new National Standard Curriculum (NSC). This workbook, reviewed and endorsed by the Ministry of Education, Youth and Information, is also organized by calendar terms with sample questions by chapters.

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### BOOK AVAILABILITY:

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- ✓ On Google™ Play Store as an eBook;
- ✓ At various book stores within Jamaica; and
- ✓ Via direct bulk order to your school.

### CONTACT INFORMATION:

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WhatsApp: 1-876-909-6311



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