



DAS EXAMINATION PERFORMANCE BOOSTER

END OF FIRST TERM EXAMINATION

NAME:..... CLASS: JHS1
SUBJECT: MATHEMATICS

PAPER 2

Answer four questions

1. (a). Simplify $3\frac{1}{2}$ of $\left[1\frac{1}{2} - \frac{1}{8} + 2\frac{1}{4}\right] \div \frac{1}{16}$

(b). Evaluate $\frac{0.0024 \times 0.002}{0.004 \times 0.06}$

(c). Mr. Opuni gave his three sons; Appiah, Apau and Fela GH¢11,000 to share. Appiah had $\frac{1}{5}$ of the money, Apau had $\frac{1}{4}$ of the money and the rest was given to Fela.

(i). What fraction of the money was given to Fela?

(ii). How much did Apau had more than Appiah?

2. Given that $E = \{ \text{Natural numbers less than 15} \}$, $A = \{ \text{multiples of 3} \}$, $B = \{ \text{odd numbers} \}$. If

A and B are subsets of E;

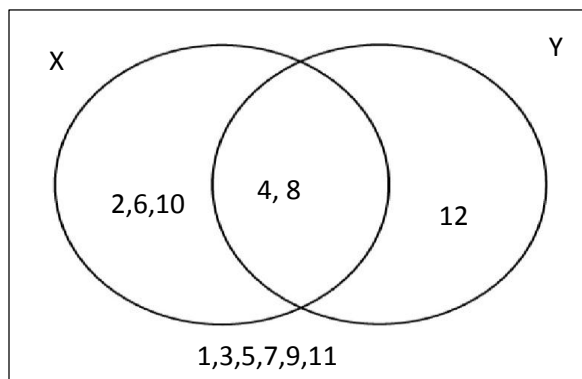
(i). List the elements of sets E, A and B

(ii). Find (α) $A \cup B$

(β) $A \cap B$

(b). Evaluate $[35 - (26 - (-5))] \div 2$

3. Use the Venn diagram below to answer the questions on it



(i). List the members of sets X, Y

(ii). Find $X \cap Y$, $X \cup Y$

(iii). Find the members of the sets which are neither in X nor Y

(iv). Find $(\alpha) X$ but not Y

$(\beta) \cup$

(b). Simplify $(3 + \frac{1}{4}) / (3 - \frac{1}{4})$

4. (a) Change the following into two decimal places

(i) 0.245 (ii) 18.1245

(b). In a school, all the boys played either volley ball, football or table tennis, $\frac{1}{4}$ of the boys played volleyball, $\frac{2}{3}$ played football and the rest play table tennis.

(i). What fraction of the boys played table tennis?

(ii). If four boys played table tennis, find the total boys in the school

(c). Find the number of sub-sets in the Set $A = \{ a, b, c \}$

5. (a) Arrange the following fractions in descending order

(i) $\frac{3}{4}$, $\frac{2}{3}$, $\frac{3}{5}$

(ii) $\frac{3}{4}$, $\frac{5}{8}$, $\frac{4}{5}$, $\frac{13}{20}$

(b) Evaluate $\frac{2000 \times 10000}{5 \times 10^4}$ leaving your answer in standard form.

(c) Find (i) $\frac{1}{5}$ of GH¢0.05

(ii) $\frac{1}{10}$ of GH¢10,000

6. (a). A Lawyer read the Will of Mr. Awuah as follows

Beneficiaries	Properties(GH¢)
Adwoa Ataa	$\frac{2}{5}$
Abena Awuah	$\frac{1}{4}$
Abene Awuah	$\frac{1}{6}$
Grand children	The remaining

If GH¢30,000 worth of the properties was given to the grandchildren

Find; (i) the fraction of the properties given to the grand children

(ii) the total worth of the properties of Mr. Awuah

(b)Write the following in words

(i) 34005

(ii) 10005

PAPER 1 [40 MARKS] 1 HOUR

1. Find the highest common factor (HCF) of the 18, 36 and 120

- A. 18 B. 36 C. 120 D. 6

2. Arrange the following fractions in descending order of magnitude $\frac{1}{2}, \frac{17}{20}, \frac{3}{4}$

- A. $\frac{3}{4}, \frac{17}{20}, \frac{1}{2}$ B. $\frac{17}{20}, \frac{3}{4}, \frac{1}{2}$
 C. $\frac{1}{2}, \frac{3}{4}, \frac{17}{20}$ D. $\frac{1}{2}, \frac{17}{20}, \frac{3}{4}$

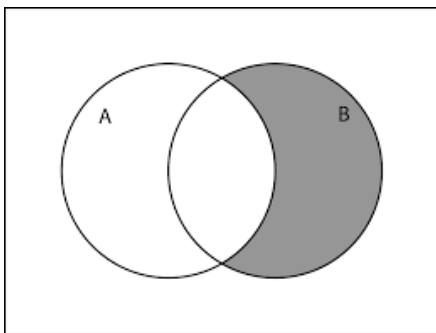
3. Express $\frac{1}{25}$ as a decimal

- A. 0.4 B. 0.04 C. 0.004 D. 0.0004

4. Simplify $0.1 \times 0.02 \times 0.003$ leaving the answer in standard form

- A. 6×10^{-7} B. 6×10^{-6}
 C. 6×10^5 D. 6×10^6 .

5. Which of the following represents



- A. $A \cup B$ B. $A \cap B$ C. B D. B but not A

6. If $Q = \{2, 4, 6, 7, 8, 10\}$ and $R = \{3, 5, 7, 9, 10, 11\}$; Find $Q \cap R$

- A. $\{3, 5, 7, 9, 10, 11\}$ B. $\{7, 10\}$
 C. $\{10\}$ D. $\{7\}$

7. Find the Least Common Multiple (LCM) of 12 and 20

- A. 24 B. 48 C. 60 D. 80

8. What is the value of the digit 8 in the number 78000?

- A. 8 ten thousands B. 8 thousands
 C. 8 hundred D. 8 tens

9. Evaluate $\frac{37}{100} \times \frac{7}{10}$

- A. 0.259 B. 2.590
 C. 25.900 D. 259.000

10. Express 1.25 as a mixed fraction in its lowest term

- A. $1\frac{1}{25}$ B. $1\frac{4}{25}$ C. $1\frac{1}{4}$ D. $1\frac{3}{4}$

11. Simplify $(\frac{2}{3} - \frac{1}{2}) \div \frac{1}{6}$

- A. $\frac{1}{36}$ B. $\frac{1}{12}$ C. 1 D. 6

12. Write 83000 in standard form

- A. 8.3×10^{-4} B. 8.3×10^{-3}
 C. 8.3×10^3 D. 8.3×10^4

13. If the set $A = \{1, 2, 3, 4, 5\}$ and the set $B = \{2, 4, 6\}$. Find the number of sets in $A \cup B$

- A. 3 B. 4 C. 5 D. 6

14. Evaluate $\frac{0.036}{0.02}$

- A. 0.018 B. 0.18 C. 1.8 D. 18.0

15. Write 78910 correct to the nearest thousand

- A. 70,000 B. 78,000
C. 79,000 D. 80,000

16. Multiply 0.014 by 0.2

- A. 0.00028 B. 0.0028 C. 0.028
0.28

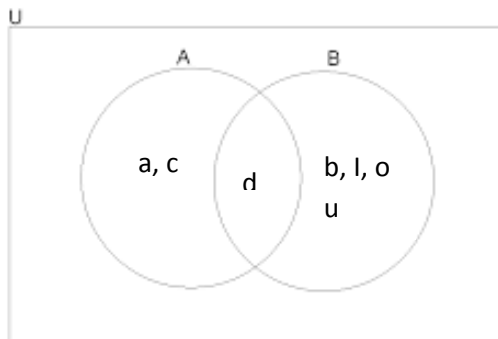
17. Simplify $-35 - (-15) + (-30)$

- A. 17 B. -50 C. 50 D. 30

18. Evaluate $\frac{0.54 \times 0.7}{9}$

- A. 0.0042 B. 0.042 C. 0.42 D. 4.2

19. Find set B



- A. { a, c, d } B. { b, d, l, o, u }
C. { d } D. { b, d, l, o, a }

20. If $P = \{ 3, 6, 8 \}$ Find the number of subsets in the set

- A. 6 B. 8 C. 4 D. 16

21. Simplify $\frac{4}{3}x - \frac{2}{9}x$

- A. $\frac{2}{9}x$ B. $\frac{2}{3}x$ C. $\frac{10}{9}x$ D. $\frac{14}{9}x$

22. Which of the following is the set of prime numbers of 12

- A. { 1, 3 } B. { 2, 3 }

- C. { 2, 4, 6, 12 } D. { 2, 3, 4, 6 }

23. List the members of the set $P = \{ \text{factors of 30 which are odd} \}$

- A. $P = \{ 2, 3, 5 \}$ B. $P = \{ 1, 2, 3, 5 \}$

- C. $P = \{ 1, 3, 5, 15 \}$ D. $P = \{ 2, 6, 10, 50 \}$

24. A farmer made 1500 drills in his farm for maize cultivation. If he use 3 grains of maize per a drill. What will be the total number of grains used on the farm?

- A. 3000 B. 4500
C. 4000 D. 5000

25. The ratio 8:12 is equivalent to $y:9$. What is the value of y ?

- A. 4 B. 5 C. 6 D. 7

26. Arrange the following in descending order of magnitude

$0.32, \frac{2}{5}, 27\%, \frac{1}{3}$

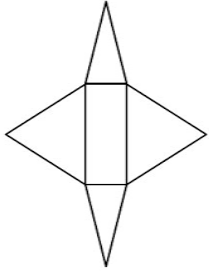
- A. $0.32, \frac{2}{5}, 27\%, \frac{1}{3}$

- B. $0.32, \frac{2}{5}, \frac{1}{3}, 27\%$

C. 27% , 0.32 , $\frac{1}{3}$, $\frac{2}{5}$

D. $\frac{2}{5}$, $\frac{1}{3}$, 0.32 , 27%

27. Which of the following can be made from the net below?



A. triangular prism B. square pyramid

C. rectangular pyramid C. cuboid

28. Evaluate $4(8-2)+5(3-8)$

A. -31 B. -1 C. 37 D. 49

29. Find $2\frac{1}{2}$ of GH¢80.00

A. GH¢8.00 B. 10.00GH¢ C. 12.00GH¢ D. ¢12.50

30. The difference between two number is 168. If the smaller number 113. Find the other number

A. 223 B. 271 C. 281 D. 291

31. Subtract 125.47 from 203.90

A. 78.57 B. 78.43

C. -121.57 D. -122.38

32. Which of the following sets is equal to $\{1, 2, 3, 4\}$?

A. $\{2, 4, 1, 5\}$ B. $\{2, 1, 4, 3\}$

C. $\{1, 2, 3, 4\}$ D. $\{2, 3, 4, 5, \dots\}$

33. Simplify $5-7+2(3-8)$

A. -12 B. -8 C. -5 D. -4

34. Write down all the integers in the set

$P = \{-10, -4, 0, \frac{1}{4}, 2\frac{1}{2}, 45, 100\}$

A. $\{-10, -4, 0, 45, 100\}$ B. $\{-10, -4\}$

C. $\{0, 45, 100\}$ D. $\{\frac{1}{4}, 2\frac{1}{2}\}$

35. The temperature of a place was -5°C . The temperature increased by 15°C . What will be the temperature?

A. 50°C B. 30°C

C. 10°C D. 50°C

36. Find the value of $124.3 + 0.275 + 74.06$ correcting your answer to one decimal place.

A. 198.6 B. 198.7

C. 892.0 D. 892.4

37. How many hours will be in 5 days?

A. 80 hours B. 160 hours

C. 120 hours D. 90 hours

38. Which of the following is the set of prime factors of 12?

A. $\{2, 3\}$ B. $\{1, 2, 3\}$

C. $\{1, 2, 4, 6\}$ D. $\{2, 3, 4, 6\}$

39. Simplify $\frac{1}{3} + \frac{1}{9} + \frac{1}{27}$

A.

$\frac{5}{27}$ B. $\frac{7}{27}$ C. $\frac{11}{27}$ D. $\frac{13}{27}$

40. The first old number is _____

A. 1 B. 2 C. 3 D. 4