Ministry of Education and Human Resource Development
Dominica

Grade 6 National Assessment May 26, 2017

TIME: 90 Minutes

Mathematics

DO NOT TAKE THIS PAPER OUT OF THE EXAMINATION ROOM

MINISTRY OF EDUCATION AND HUMAN RESOURCE DEVELOPMENT.

INSTRUCTIONS

READ THE FOLLOWING INSTRUCTIONS BEFORE ATTEMPTING THE TEST.

1. THIS PAPER CONTAINS 60 QUESTIONS.

2. FOR EACH QUESTION, CIRCLE THE LETTER ON THE ANSWER SHEET THAT MATCHES THE ANSWER YOU HAVE CHOSEN.

3. USE A PENCIL TO SHADE IN THE CORRECT ANSWER.

EXAMPLE:

1. What does the 6 in the number 65 432 represent?

   A. tens of thousands
   B. thousands
   C. hundreds
   D. ones

   The correct answer is tens of thousands, letter A. On your answer sheet you mark:

   A. B. C. D

   If you need to change your answer, erase it and circle your new answer.

4. **NO calculators** are allowed.

5. **If you cannot answer a question leave it and move on to the next one. You will come back to it later if you have more time.**

NUMBER CONCEPTS

1. Three million nine thousand and one written in figures is

   A. 3 009 001
   B. 3 900 100
   C. 3 901 100
   D. 3 910 000

2. **25** ones, **30** tens and **60** hundreds represent the number

   A. 6 000 325
   B. 6 325
   C. 925
   D. 695

3. **7 659** written to the **nearest hundred** is

   A. 8760
   B 8660
   C 7700
   D 7660

4. The **highest common factor (H.C.F**) of 2, 4 and 6 is

   A. 1
   B. 2
   C. 12
   D. 24

5. The list of numbers; **2, 3, 5, 7, 11,13**, represents the set of

   A. even numbers less than 14
   B. triangular numbers less than 14
   C. odd numbers less than 14
   D. prime numbers less than 14

6. The least number of pencils which can be shared equally among groups of 2, 3 or 6 students is

A. 18
B. 12
C. 6
D. 2

OPERATIONS

7. **1 527** + **52** + **41** is equal to

A. 1 520
B. 1 610
C. 1 620
D. 8 137

8. The sum of the following numbers below is

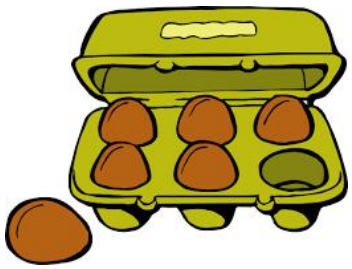
3344
281
+ 132

A. 757
B. 1057
C. 3757
D. 3857

9. **Multiply** 96 by 9

A. 814
B. 864
C. 8 154
D. 8 654

10. Eggs are packed into half dozen cartoon boxes. If **ALL** eggs must be packed into a box, how many boxes are needed to pack 38 eggs?



A. 5
B. 6
C. 7
D. 8

11. Find the **difference** between 80 000 and 176.

    A. 79 824
    B. 78 824
    C. 78 924
    D. 78 834

12. Choose the correct answer for the operation shown below.

$$\begin{array}{r} 2\,4\,\not{7}^{6}\,{}^{1}3\,2\,1 \\ -\ 5\,1\ \ 6\,1\,0 \\ \hline \end{array}$$

    A. 195 711
    B. 196 711
    C. 215 711
    D. 216 311

13. In the operation, (**136 x 128)**, multiplying with the **2 (**in the number 128**),** really means multiplying **136** by

    A. 28
    B. 2
    C. 20
    D. 200

14. The **best** method of estimation that can be used to guess the answer for the division **7079 ÷ 39** is

    A. 7000 ÷ 30
    B. 7100 ÷ 40
    C. 7070 ÷ 40
    D. 7060 ÷ 30

15. The **mean** (average) of the numbers **4, 6 and 10** is

    A. (4 x 6 x 10) ÷ 3
    B. (4 + 6 + 10) ÷ 3
    C. (4 + 6 + 10) x 3
    D. (4 + 6 + 10) + 3

16. A top has 6 buttons, and each button has 4 holes. How many holes will there be in 5 similar tops?

A. (6 x 5) x 5
B. (6 + 4) x 5
C. (6 x 4) + 5
D. (6 x 4) x 5

17. If **K + 3** is less than 10, then **K** must be:-

A. greater than 7
B. less than 7
C. greater than 10 but less than 13
D. less than 10 but greater than 7

18. Mr Andrew harvested **3 056** dasheens. He packed them into bags of **8** dasheens each.

How many bags of dasheen did he pack?

A. 357
B. 382
C. 24 048
D. 24 448

19. The product of **61** and **39** is

A. 2379
B. 732
C. 100
D. 68

20. Grandma Joe was born in **1918** and died in **2008**. How old was she when she died?

A. 88 years
B. 89 years
C. 90 years
D. 91 years

21. There are 36 students in a classroom. 6 of these children did not take part in sports. The rest were placed into teams of 5 players each. How many teams were formed?

A. 8
B. 7
C. 6
D. 5

22. Larry is **R** years old. His younger brother is ½ his age. If the sum of their ages is 36, how old is Larry?

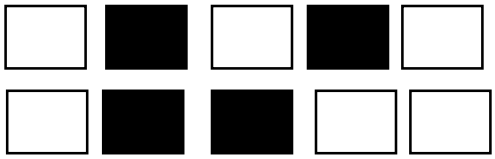
A. 12
B. 18
C. 24
D. 30

23. Joe has 340 stamps and John has 70 more stamps than Joe. How many stamps do they have altogether?

A. 750
B, 610
C. 410
D. 270

Fractions and Decimals

24. In the diagram below, the **shaded** portion is represented by the fraction



A. $\frac{2}{5}$

B. $\frac{4}{6}$

C. $\frac{6}{10}$

D. $\frac{3}{5}$

25. Which fraction is not equivalent to the others?

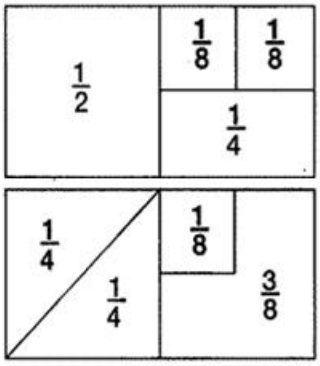
A. $\frac{12}{20}$

B. $\frac{36}{60}$

C. $\frac{6}{10}$

D. $\frac{24}{36}$

26. Select the equation that is **incorrect** using the diagrams (fraction walls) below**.**



A. $\frac{1}{4} = \frac{2}{8}$

B. $\frac{1}{2} - \frac{1}{8} = \frac{3}{8}$

C. $\frac{1}{4} + \frac{1}{8} = \frac{3}{8}$

D. $\frac{3}{8} - \frac{1}{8} = \frac{1}{2}$

27. 20 cents written as a decimal is

A. $0.02
B. $0.20
C. $2.00
D. $20.00

28. In the decimal **18.374**, the **3** represents

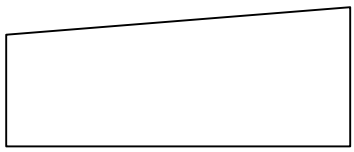
A. 3 ones
B. 3 tenths
C. 3 hundredths
D. 3 thousandths

29. Which number lies between 0.6 and 0.7?

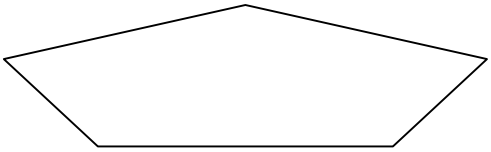
A. 0.50
B. 0.55
C. 0.63
D. 0.80

GEOMETRY

30. Which of the following shapes is a **parallelogram**?

A. 

B. 

C. 

D. 

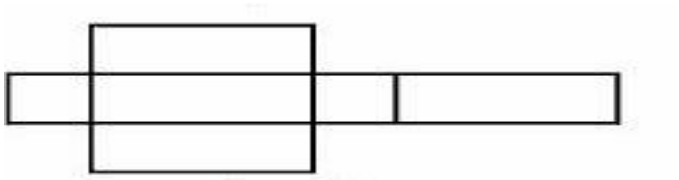
31. The polygon shown below is a (an)

A. pentagon
B. heptagon
C. octagon
D. hexagon

32. Each angle in an **equilateral** triangle measures

A. 60°
B. 120°
C. 140°
D. 180°

33. What 3 – D shape can be created by folding this net?



A. cube
B. cuboid
C. pyramid
D. cylinder

34. Which of the following is **NOT** a prism?

A. 

B. 

C. 

D. 

35. A solid which has **two flat faces** and **one curved face** is called a

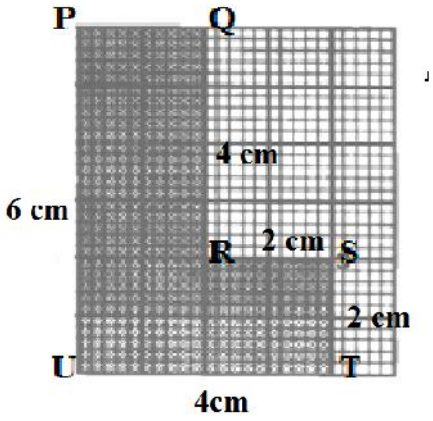
A. wedge
B. cylinder
C. pyramid
D. cone

MEASUREMENT

36. **20 cm** of a metre ruler has been cut off. How much of the ruler is left?

A. 0.6 m
B. 0.7 m
C. 0.8 m
D. 1.0 m

Use the diagram below to answer Questions 37 and 38.



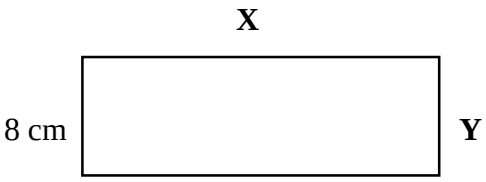
37. The perimeter of **PQRSTU** is

A. 24 cm
B. 20 cm
C. 16 cm
D. 12cm

38. The area of the shape **PQRSTU** is

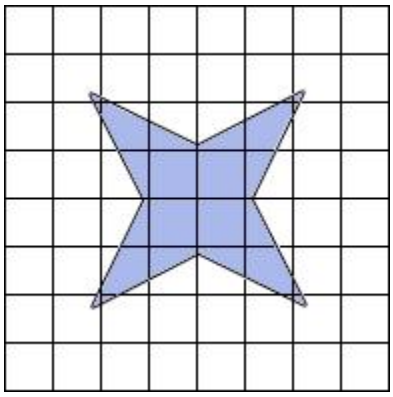
A. 48 cm^2
B. 36 cm^2
C. 20 cm^2
D. 16 cm^2

39. In the rectangle shown below, side **X** is **4 cm longer** than side **Y**. If side **Y** is **8cm** long, then the area of the rectangle is



A. 96 cm^2
B. 40 cm^2
C. 32 cm^2
D. 24 cm^2

40. Estimate the area covered by the figure shown below.



A. 16 cm^2
B. 14 cm^2
C. 12 cm^2
D. 8 cm^2

41. Which of these would **most likely** have a capacity of **about 3 millilitres**?

A.  Medicine dropper

B.  drinking glass

C.  water bottle

D.  cereal bowl

42. The most appropriate unit to be used to measure the mass of a feather would be

A. mg
B. g
C. cg
D. kg

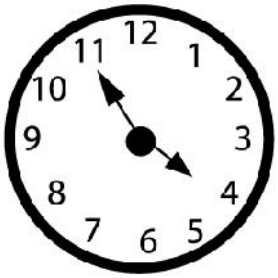
43. If the mass of an orange is about 210 grams, then the mass of 5 such oranges will weigh about

A. 1.00 kg
B. 1.05 kg
C. 1.15 kg
D. 1.50 kg

44. 150 minutes =

A. 1 hour and 50 minutes
B. 2 hours and 15 minutes
C. 2 hours and 30 minutes
D. 3 hours and 10 minutes

45. The time shown on the clock is



A. 20 minutes past 11
B. 11 minutes to 4
C. 4 minutes past 11
D. 5 minutes to 4

46. West Indies plays cricket in India. Dominica is 9 hours behind India. Cricket stops at 5 p.m. in India. What time is it in Dominica?

A. 2 a.m.
B. 2 p.m.
C. 8 a.m.
D. 8 p.m.

47. The value of the groups of **$1.00** coins, **5¢** and **10¢** pieces shown below is

A. $2.85
B. $2.80
C. $2.65
D. $2.56

48. Tom went to the store and bought the following items on sale;

$10.95

$ 48.90

Appoximately how much change should he get, if he paid with a $100.00 note?

A. $60.00
B. $45.00
C. $40.00
D. $36.00

49. If **two books** and a **pencil** cost $1.40, but the pencil costs 60 cents, What is the cost of a book?

A. $0.80
B. $0.40
C. $2.00
D. $0.30

50. Joshua bought a phone for $485.00 and sold it for $634.00. Which statement is true? He made a

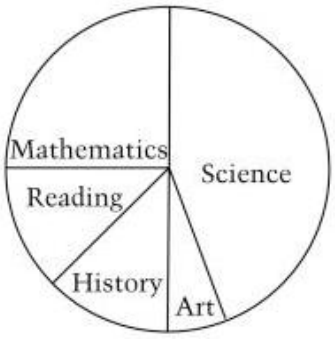
A. profit of $159.00
B. loss of $149.00
C. loss of $159.00
D. profit of $149.00

Statistics and Data Handling

51. Mark wants to count the numbers of different coloured vehicles that drive by within one hour in his neighbourhood. Which of these should he most likely use to **collect** that information?

A. stop clock
B. tally chart
C. pictograph
D. bar graph

52. The diagram shown below is an example of a



A. bar graph
B. pictograph
C. pie chart
D. frequency cycle

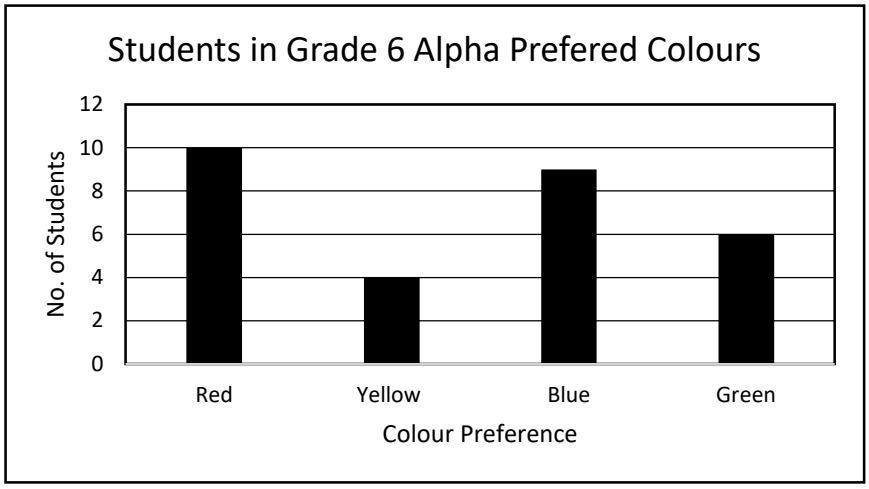
53. Sarah collected data on the shoe size worn by students in her class. She recorded the information in this table.

Shoe Sizes	5	6	7	8
No. of Students	2	10	6	4

How many students wore sizes 6 to 8 shoes?

A. 6
B. 14
C. 20
D. 22

Use the Graph Below to answer Questions 54 - 56



54. Mrs Rhodes brought some coloured balloons to share in the classroom. How many students would most likely choose the red balloons?

A. 4
B. 5
C. 9
D. 10

55. How many students were in Grade 6 Alpha?

A. 29
B. 12
C. 10
D. 4

56. How many more students preferred the colour blue than yellow?

A. 9
B. 8
C. 5
D. 4

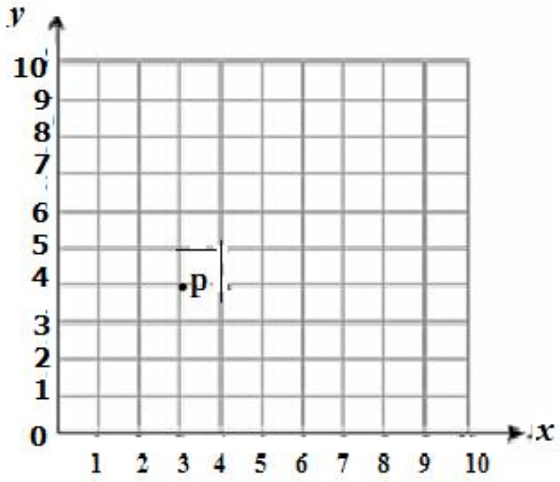
Patterns, Functions and Algebra

57. Which number completes the number pattern below?

___, 101, 111, 121, 131

A. 110
B. 100
C. 90
D. 91

58. The coordinates of **point P** are



A. (3, 4)
B. (4, 3)
C. (2, 3)
D. (4, 5)

59. **Use the equations shown below to answer the question that follows.**

3 + 2 + 8 + **a** = 20
5 + 3 + 6 + **b** = 20
9 + 4 + 3 + **c** = 20

From the equation shown above, we can say that **a + b + c** =

A. 20
B. 17
C. 16
D. 15

60. Study the diagrams below; which show a pattern.

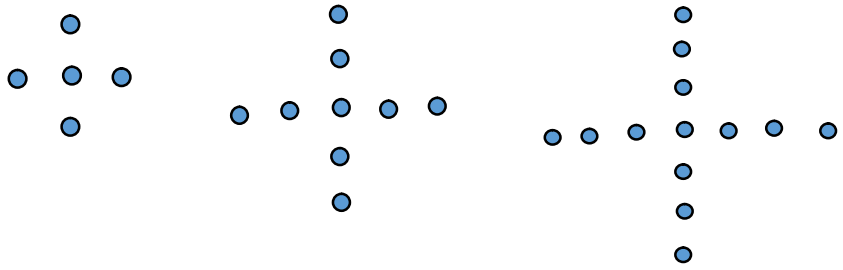


Diagram 1 **Diagram 2** **Diagram 3**

How many dots are needed to draw **Diagram 5**?

A. 28
B. 25
C. 21
D. 17