MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY

ANTIGUA AND BARBUDA

2018 GRADE SIX NATIONAL ASSESSMENT

MATHEMATICS - PAPER 1

June 07, 2018

30 MARKS

TIME: 50 Minutes

Answer ALL Questions

Read the following instructions CAREFULLY.

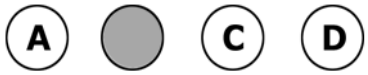
1. This paper has 30 questions. You have 50 minutes to answer them.
2. Each question has four possible answers: A, B, C, D.
3. Read each question carefully then choose the correct answer.
4. On the answer sheet, find the number of the question you want to answer.
5. Shade the circle with the letter of the answer you have chosen.

   Sample Question:

   The difference between 16 and 8 is:

   A. 2
   B. 8
   C. 24
   D. 128

   The correct answer is *8*, so on your answer sheet you should shade the circle containing the letter *B*.



6. If you want to change your answer, be sure to erase your old answer completely and fill in your new choice.
7. If you cannot answer a question, leave it and go on to the next one. You can come back to that question later.
8. Your score will be the total number of correct answers.
9. The use of calculator is **NOT** allowed. 

Number Theory (Items 1 – 8)

1. Which number represents twenty-eight thousand six hundred eight?

A. 2 868
B. 28 068
C. 28 608
D. 28 680

2. Which statement about **12** is NOT true?

A. It is a square number.
B. It is the least common multiple of 3 and 4.
C. It is a factor of 60.
D. It is an even composite number.

3. A football announcer shouts, "About 40 000 people are at the game tonight!" If the announcer rounded to the nearest thousand, what is the **greatest** number of people that could be at the game?

A. 44 999
B. 40 499
C. 39 999
D. 39 500

4. 2 x 2 x 2 x 3 x 5 represent the prime factors of

A. 14
B. 48
C. 90
D. 120

5. Which of the following percentages is equal to 0.7?

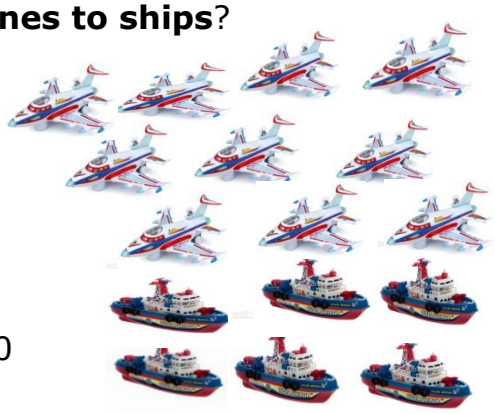
A. 7%
B. 70%
C. 0.7%
D. 700%

6. Which number is less than 0.5?

A. $\frac{3}{10}$
B. $\frac{3}{2}$
C. $\frac{3}{4}$
D. $\frac{2}{3}$

7. Micky has 6 toy ships and 10 airplanes. Which expression can be used to describe the ratio of **airplanes to ships**?

A. 6:10
B. 5 to 3
C. $\frac{3}{5}$
D. 6 to 10



8. Order the decimals from least to greatest.

3.5	3.2	3.05	3.52

A. 3.2, 3.05, 3.5, 3.52
B. 3.05, 3.52, 3.2, 3.5
C. 3.2, 3.5, 3.05, 3.52
D. 3.05, 3.2, 3.5, 3.52

Computation (Items 9 – 15)

9. Zack has 5 coins that total 0.95. What are the coins he has?

A. 2 quarters; 3 ten cents
B. 2 quarters; 3 five cents
C. 3 quarters; 2 five cents
D. 3 quarters; 2 ten cents

10. What is 20% of 800?

A. 40
B. 160
C. 1600
D. 16 000

11. Amanda is planting some seeds in flowerpots. If she plants a total of 144 seeds and she plants 6 seeds in each flowerpot, how many flowerpots will Amanda use?

A. 864
B. 138
C. 24
D. 22

12. What is the value of $5 - 2\frac{7}{8}$?

A. $2\frac{1}{8}$
B. $3\frac{7}{8}$
C. $3\frac{1}{8}$
D. $7\frac{7}{8}$

13. 4.44 x 1000 =

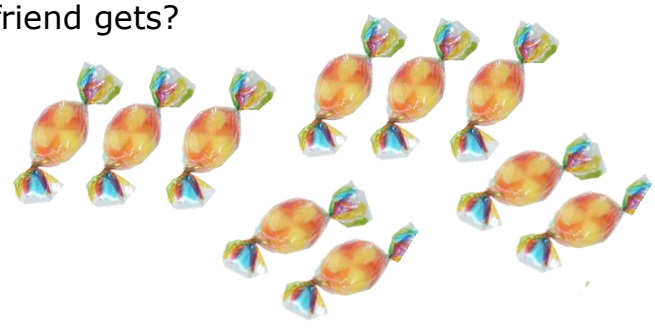
A. 44.4
B. 444
C. 4 440
D. 44 400

14. Ms. Lewis used $\frac{3}{5}$ of the gas in her car's tank while driving over the weekend. What percent of the gas was left?

A. 35%
B. 40%
C. 60%
D. 65%

15. Kara's taffy pieces are shown at the right. Kara keeps 1 piece of taffy for herself. She divides the rest evenly among 3 friends. Which expression shows the number of taffy pieces each friend gets?

A. (10 ÷ 3) ÷ 1
B. (10 – 1) ÷ 3
C. (10 ÷ 3) + 1
D. (10 - 3) ÷ 1



Measurement (Items 16 – 21)

16. How many hours are there in 2 ½ days?

A. 30 hours

B. 48 hours

C. 60 hours

D. 72 hours

17. Ron works from 8:30 a.m. to 3:45 p.m. How long does Ron work?

A. 4 hours 15 minutes

B. 5 hours 15 minutes

C. 6 hours 15 minutes

D. 7 hours 15 minutes

18. How much less than one kilogram is 379 grams?

A. 621 g

B. 779 g

C. 2 621 g

D. 3 790 g

19. The distance from Willikies to Potters is about 15.9 kilometres (km). How many metres (m) is this?

A. 15.9 m

B. 159 m

C. 1 590 m

D. 15 900 m

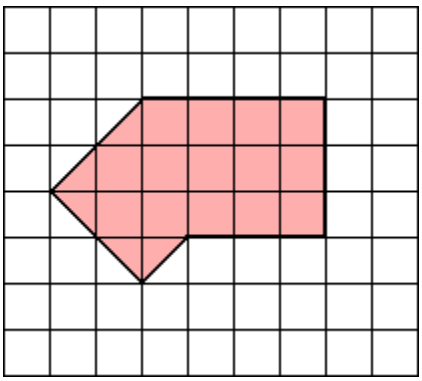
20. The area of the shaded region is

A. 14 unit^2

B. 16½ unit^2

C. 17½ unit^2

D. 19 unit^2



21. The perimeter of a square is 36 cm. The length of a side is

A. 4 cm

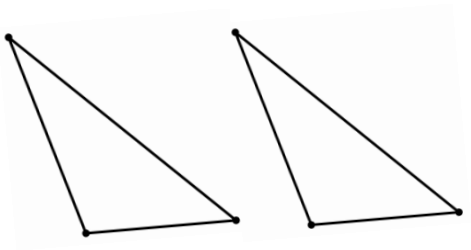
B. 6 cm

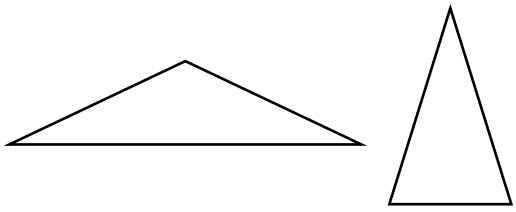
C. 9 cm

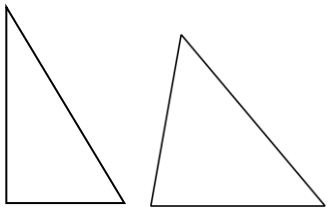
D. 18 cm

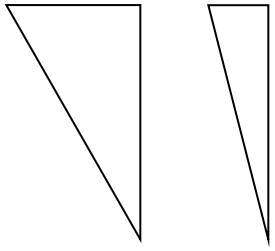
Geometry (Items 22 – 27)

22. Which pair of triangles are congruent?

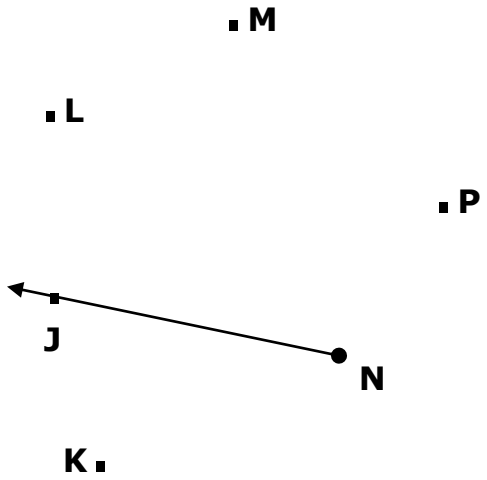
A. 

B. 

C. 

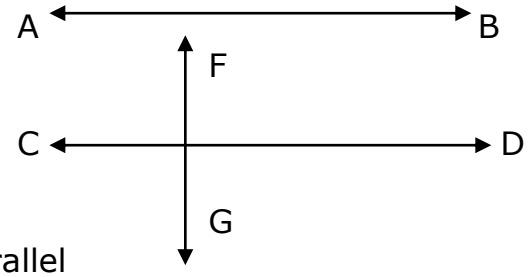
D. 

24. Which point in the diagram below can be connected to point N to form an **obtuse** angle with ray NJ?



A. point K
B. point L
C. point M
D. point P

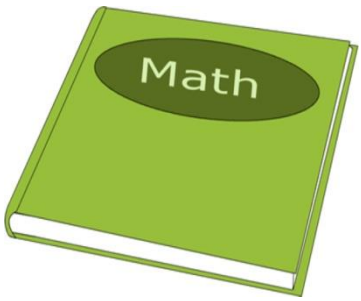
23. In the diagram below, line CD is _____ to line FG.



A. parallel
B. perpendicular
C. diagonal
D. acute

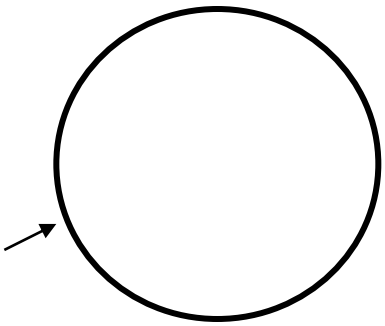
25. Which solid is an exercise book an example of?

A. cube
B. cuboid
C. rectangle
D. square



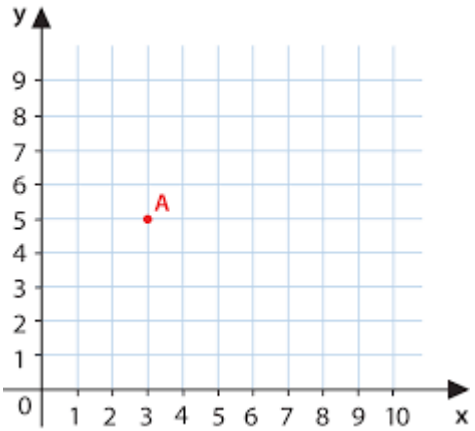
26. The outline of a circle, as shown below, is called a

A. circumference
B. diameter
C. radius
D. ray



27. The coordinates for point A is

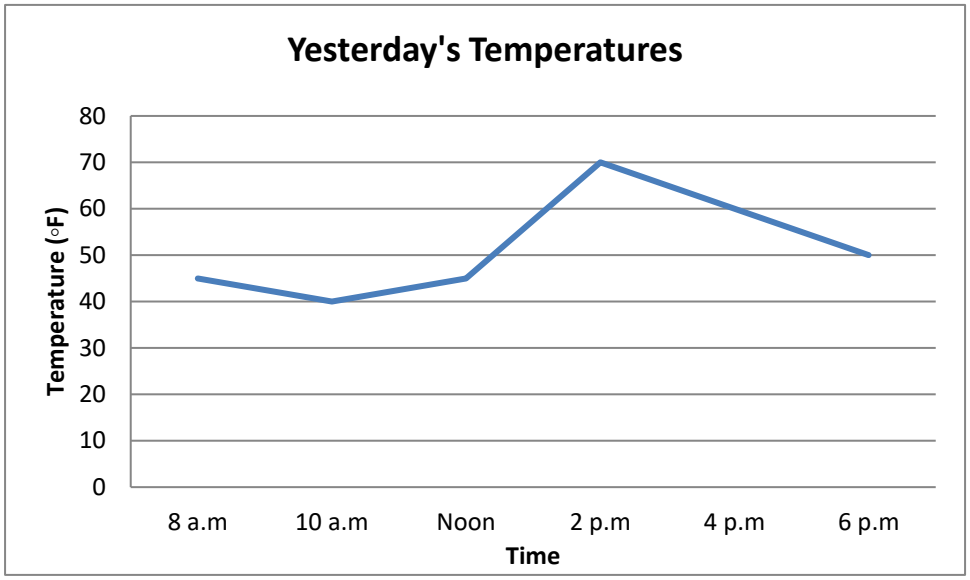
A. (5, 3)
B. (4, 5)
C. (3, 5)
D. (5, 4)



Data Handling/Statistics (Items 28 – 30)

Use the line graph below to answer items 28 and 29.

Connie saw the graph below in the newspaper.



28. What time of day was the highest temperature recorded?

A. 8 a.m.
B. 2 p.m.
C. 4 p.m.
D. 6 p.m.

29. What is the difference between the temperatures at 8 a. m. and 6 p.m.?

A. 50 ◦F
B. 45 ◦F
C. 30 ◦F
D. 5 ◦F

30. A batsman scored 62, 12, 50, 0 and 16 runs in 5 matches. What is his mean score?

A. 21

B. 28

C. 35

D. 140