

**MINISTRY OF EDUCATION
NATIONAL ANNUAL ASSESSMENT
GRADE 5
MATHEMATICS**

PAPER 1

JUNE 27, 2023 (a.m.)

1 hour and 10 minutes

READ THE FOLLOWING INSTRUCTIONS CAREFULLY.

1. This test has 40 questions. You have 1 hour and 10 minutes to answer them.
2. Each question has **four** suggested answers: (A) , (B), (C) and (D). Read each question carefully, then choose the correct answer.
3. On your answer sheet, find the number that matches the question you intend to answer.
4. Shade the circle which has the same letter (A) , (B), (C), or (D), that matches your answer for each question.

Sample Question

(A) The sum of 4 and 5 is

(A) 1

(B) 9

(C) 2

(D) 45

ANSWER SHEET

1. A B C D

The correct answer to this question is “9”. So (B) has been shaded.

5. If you want to change your answer, erase it completely before you fill in your new choice.
6. When the supervisor tells you to begin, turn the page and work as quickly and as carefully as you can.
7. If you try a question and find that you cannot answer it, go on to the next one. You may return to that question later.
8. You must **not** use calculators for this test. Rough work may be done in this booklet.

DO NOT TURN OVER THIS PAGE UNTIL YOU ARE TOLD TO DO SO.

1. What is the value of the **8** in the numeral **48** 196?
- (A) 80
 - (B) 800
 - (C) 8 000
 - (D) 80 000
2. Five thousand, six hundred seventy-three, written in numerals is
- (A) 5 573
 - (B) 5 673
 - (C) 5 763
 - (D) 5 773
3. Which of the following number sentences is **incorrect**?
- (A) $5 \times 4 = 4 \times 5$
 - (B) $2 + 7 = 10 - 1$
 - (C) $10 - 3 = 3 - 10$
 - (D) $3 + 10 = 10 + 3$
4. Which of the following numbers is a factor of **both** 12 and 15?
- (A) 2
 - (B) 3
 - (C) 5
 - (D) 6

5. When the number 367 is rounded to the nearest 100, it becomes

- (A) 300
- (B) 360
- (C) 370
- (D) 400

6. 7 458 written in expanded form is

- (A) $70 + 400 + 50 + 8$
- (B) $700 + 400 + 50 + 8$
- (C) $7000 + 4 + 500 + 8$
- (D) $7000 + 400 + 50 + 8$

Question 7 refers to the following diagram which shows 4 numbered clouds: P, Q, R and S.

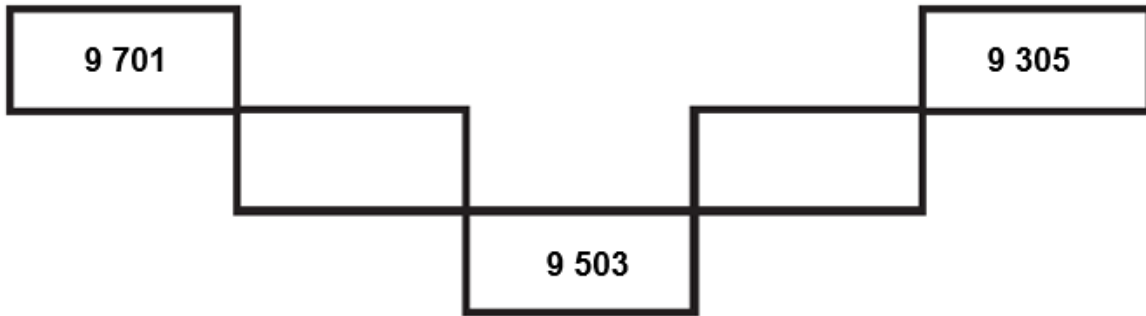


7. In which of the following groups are the clouds arranged so that the value of the '3' is in ascending order?

- (A) Q, S, R, P
- (B) P, Q, R, S
- (C) Q, R, S, P
- (D) R, S, P, Q

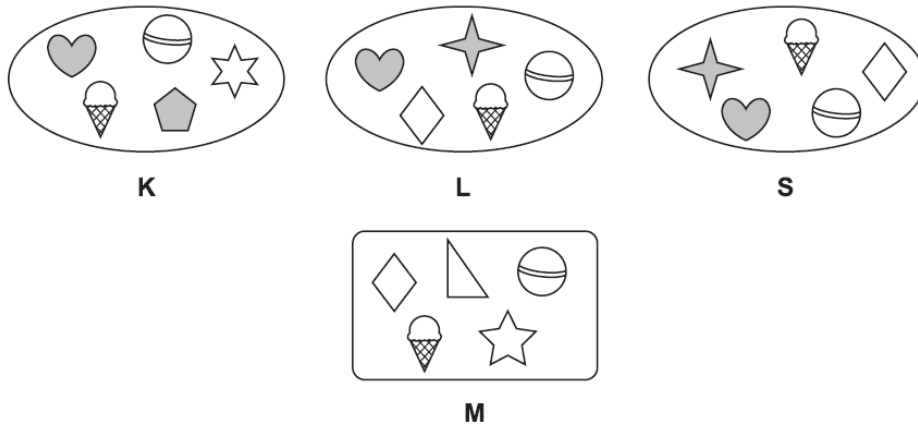
Question 8 refers to the following diagram which shows an incomplete sequence.

8. Which **pair** of numbers will correctly complete the sequence below?



- (A) 9 402 9 204
(B) 9 506 9 305
(C) 9 602 9 404
(D) 9 702 9 504
9. If Set **E** = {1, 2, 3, 4, 5}, then which of the statements below **best** describes Set E?
- (A) The first five counting numbers.
(B) The set of odd numbers less than 6.
(C) The set of even numbers from 1–5.
(D) The set of prime numbers less than 6.

Questions **10** and **11** refer to the diagram below of Sets **K**, **L**, **S** and **M**.



10. Which of the two sets above are equal?

- (A) K and L
- (B) L and S
- (C) S and M
- (D) K and M

11. Which of the sets below are equivalent but **not** equal?

- I. K and L
- II. L and S
- III. S and M

- (A) I only
- (B) II only
- (C) I and III only
- (D) II and III only

12. What is the average of 18, 21 and 24?

- (A) 3
- (B) 21
- (C) 45
- (D) 63

13. Which of the following numbers is exactly divisible by 3?

- (A) 1 042
- (B) 2 350
- (C) 3 400
- (D) 4 125

14. What is the missing digit in the problem below?

$$\begin{array}{r} 3 \square 5 \\ - 198 \\ \hline 137 \end{array}$$

- (A) 3
- (B) 4
- (C) 5
- (D) 6

15. Akeelah took 80 minutes to travel from Town A to Town B. She took another 105 minutes to travel from Town B to Town C. What was the **total** time taken by Akeelah to travel from Town A to Town C?

- (A) 1 hour 25 minutes
- (B) 2 hours 5 minutes
- (C) 2 hours 25 minutes
- (D) 3 hours 5 minutes

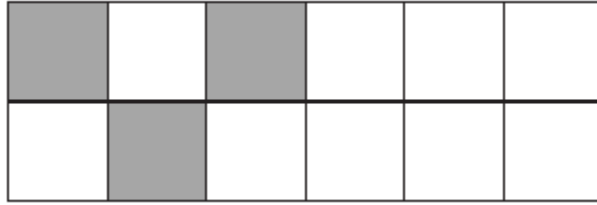
16. $15 + 9 \div 3$ can be simplified as

- (A) 15
- (B) 18
- (C) 24
- (D) 27

17. Which of the fractions below is **smaller** than $\frac{1}{9}$?

- (A) $\frac{1}{5}$
- (B) $\frac{1}{7}$
- (C) $\frac{1}{8}$
- (D) $\frac{1}{12}$

Question 18 refers to the figure below.



18. What fraction of the figure above is **shaded**?

(A) $\frac{1}{4}$

(B) $\frac{1}{3}$

(C) $\frac{6}{12}$

(D) $\frac{9}{12}$

19. 0.75 expressed as a fraction is

(A) $\frac{1}{2}$

(B) $\frac{3}{4}$

(C) $\frac{5}{8}$

(D) $\frac{5}{12}$

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

(A) $\frac{2}{12}$

(B) $\frac{4}{12}$

(C) $\frac{5}{8}$

(D) $\frac{7}{8}$

21. What decimal represents the **shaded** part in the diagram below?



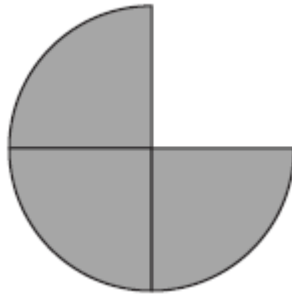
(A) 0.1

(B) 0.25

(C) 0.75

(D) 1.0

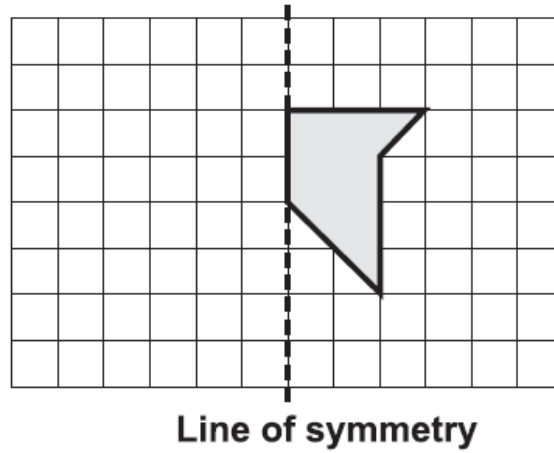
22. Teacher Mary wanted to buy $\frac{5}{6}$ of a pizza to share among the pupils of her class but the shop only had the portion shown in the diagram below.



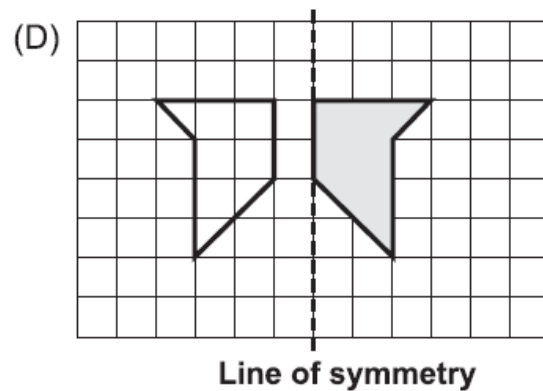
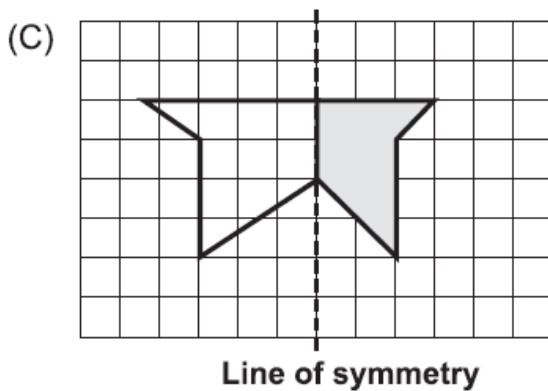
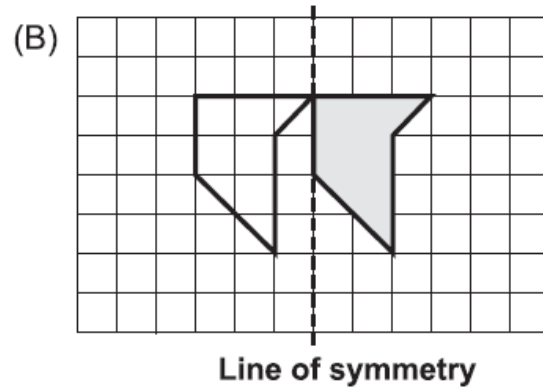
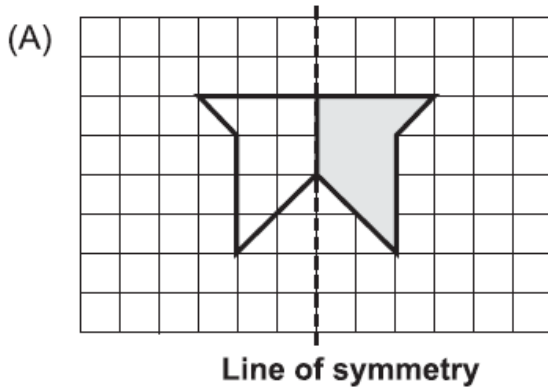
How much more pizza does she need to get the amount she wanted?

- (A) $\frac{1}{12}$
- (B) $\frac{1}{4}$
- (C) $\frac{3}{4}$
- (D) $\frac{4}{5}$

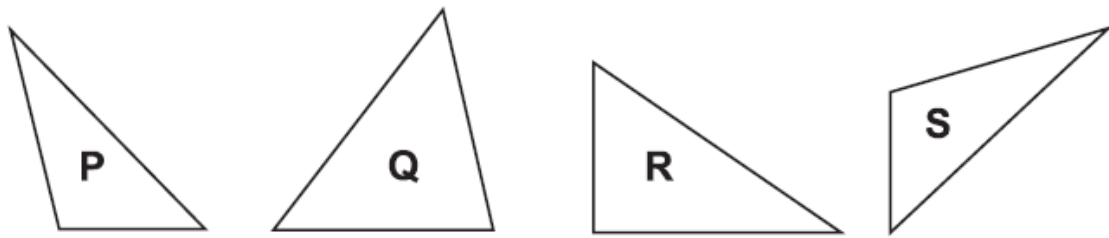
Question 23 refers to the diagram below which shows part of a shape drawn on a square grid. The line of symmetry is also shown.



23. Which of the diagrams below shows the completed symmetrical shape?



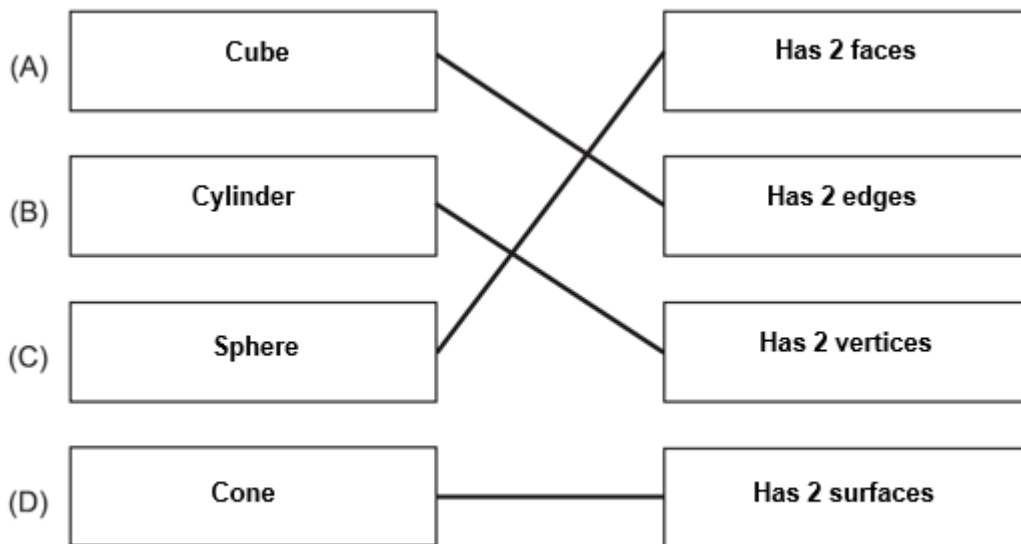
Question 24 refers to the diagrams below which show 4 triangles.



24. Which **two** triangles above are congruent?

- (A) P and Q
- (B) P and S
- (C) Q and R
- (D) S and R

25. Which of the solids is matched to its **correct** description?

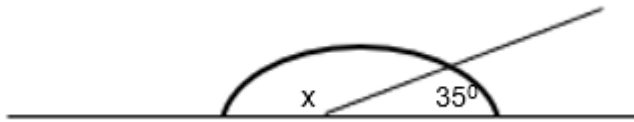


26. Which of the following polygons has **five** sides?

- (A) Triangle
- (B) Hexagon
- (C) Pentagon
- (D) Quadrilateral

Question 27 refers to the diagram below.

27. What is the size of angle x ?



- (A) 55°
- (B) 125°
- (C) 145°
- (D) 325°

Question 28 refers to the diagram below which shows the face of a clock.



28. The time shown on the clock is 15 minutes fast. What is the actual time?

- (A) 9:50 a.m.
- (B) 10:00 a.m.
- (C) 10:10 a.m.
- (D) 10:20 a.m.

29. 4 km converted to metres is

- (A) 40 m
- (B) 400 m
- (C) 4 000 m
- (D) 40 000 m

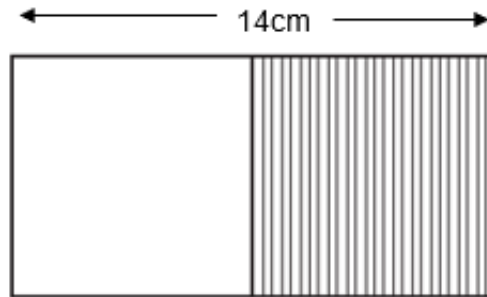
Question 30 refers to the diagram below.



30. What is the mass of the bag of rice in grams?

- (A) 25 g
- (B) 250 g
- (C) 2 050 g
- (D) 2 500 g

Questions **31** and **32** refer to the rectangle below which is made up of two identical squares.



31. What is the perimeter of the shape?
- (A) 42 cm
 - (B) 44 cm
 - (C) 52 cm
 - (D) 56 cm
32. What is the area of the **shaded** part of the figure?
- (A) 14 cm^2
 - (B) 21 cm^2
 - (C) 42 cm^2
 - (D) 49 cm^2

Question 33 refers to the diagram below which shows mangoes on sale at a supermarket.



33. Sharlene paid \$360 for some mangoes. How many mangoes did she receive **altogether**?

- (A) 4
- (B) 5
- (C) 6
- (D) 7

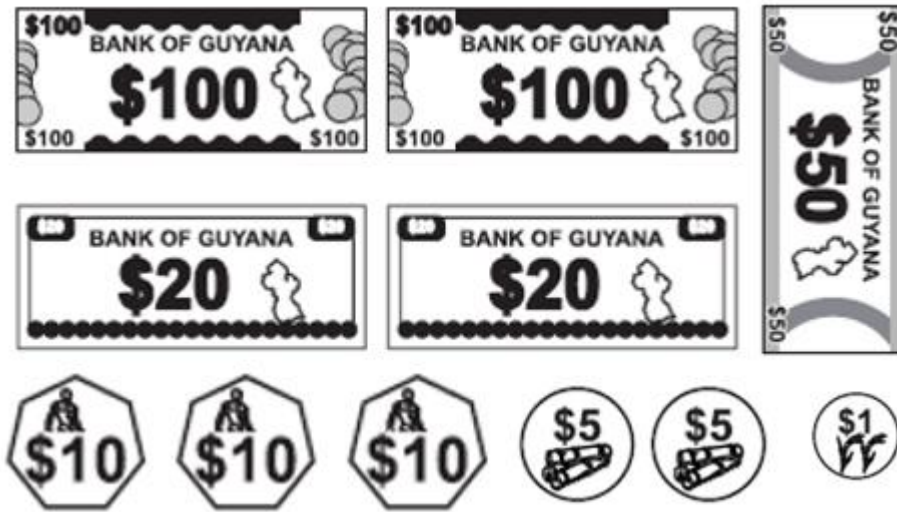
Question 34 refers to the diagram below which shows the number of cones that can be obtained from one tub of ice cream.



34. How many cones would Sandy get from 3 tubs of ice cream?

- (A) 21
- (B) 24
- (C) 27
- (D) 30

Question 35 refers to the diagram below which shows the coins and notes that Jessica has in her piggy bank.



35. How much money does Jessica have **altogether**?

- (A) 281
- (B) \$331
- (C) \$431
- (D) \$662

Question 36 refers to the diagram below.



36. Amy bought 3 shirts and resold them at \$3 000 each. How much profit did she make?
- (A) \$1 000
 - (B) \$2 000
 - (C) \$3 000
 - (D) \$4 000

Questions **37** and **38** refer to the diagram below which shows the means of transportation used by pupils of Grade 5.

Transport	Tally
Walk	
Bus	
Car	
Bike	





37. If a total of 29 pupils travel to school, how many travel by car?

- (A) 2
- (B) 4
- (C) 6
- (D) 8

38. What is the most popular means of transportation?

- (A) Car
- (B) Bus
- (C) Bike
- (D) Walk

Questions 39 and 40 refer to the information below which shows fruits that the pupils in Grade 5 enjoy.

Fruit	Number of Pupils
Pineapple	
Watermelon	
Banana	
Guava	

39. How many more pupils like bananas than watermelon?

- (A) 1
- (B) 2
- (C) 3
- (D) 4

40. Which fruit is enjoyed by twice the number of pupils who like bananas?

- (A) Guava
- (B) Banana
- (C) Pineapple
- (D) Watermelon

END OF ASSESSMENT