

MINISTRY OF EDUCATION
NATIONAL GRADE SIX ASSESSMENT
PRACTICE TEST 3
MATHEMATICS
PAPER 1

MARCH 12, 2020

Reading Time: 10 minutes
Writing Time: 60 minutes

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. This test has **40** questions. You have 1 hour 10 minutes to answer them.
2. Each question has four possible 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, next to the answer you have chosen.

Sample Question

1. The sum of 4 and 5 is

- (A) 1
- (B) 9
- (C) 20
- (D) 45

Sample Answer



The correct answer 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, leave it and go on to the next one.

You may return to that question later.
8. You must not use calculators for this assessment.

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

1. Two million, two hundred two when written in figures, is

- (A) 2 000 002
- (B) 2 000 202
- (C) 2 002 202
- (D) 2 202 002

2. Seven times 12 can be written as

- (A) $7 + 12$
- (B) 7×12
- (C) $7 - 12$
- (D) $7 \div 12$

3. What fraction in the diagram below is shaded?



- (A) $\frac{4}{2}$
- (B) $\frac{3}{2}$
- (C) $\frac{2}{2}$
- (D) $\frac{1}{2}$

4. The Highest Common Factor of 9 and 24 is

- (A) 3
- (B) 9
- (C) 15
- (D) 24

5. What is the sum of 0.6 and 5?

- (A) 30
- (B) 11
- (C) 5.6
- (D) 1.1

6. Study the members of the set below then answer the question.

Set A = {Months of the year beginning with J}

How many members are in the set?

- (A) 3
- (B) 6
- (C) 9
- (D) 12

7. Fifteen PERCENT means fifteen out of every

- (A) cent.
- (B) ten.
- (C) hundred.
- (D) thousand.

8. Jaiwantie is about 3 _____ taller than Rawl.

- (A) centimetres
- (B) metres
- (C) hectometres
- (D) kilometres

9. Which answer below has the same meaning in time as this digital clock?



- (A) Thirty five minutes past eleven
- (B) Thirty five minutes to one
- (C) Twenty five minutes to twelve
- (D) Twenty five minutes to one

10. Angles are measured in

- (A) centimetres.
- (B) degrees.
- (C) litres.
- (D) percentage.

11. The tally set shown here , represents

- (A) 3
- (B) 4
- (C) 15
- (D) 18

Study the set of scores below then answer questions **12 to 14**.

1, 6, 4, 6, 7, 3, 2, 3

12. What is the mean of the data set?

- (A) 1
- (B) 3
- (C) 4
- (D) 7

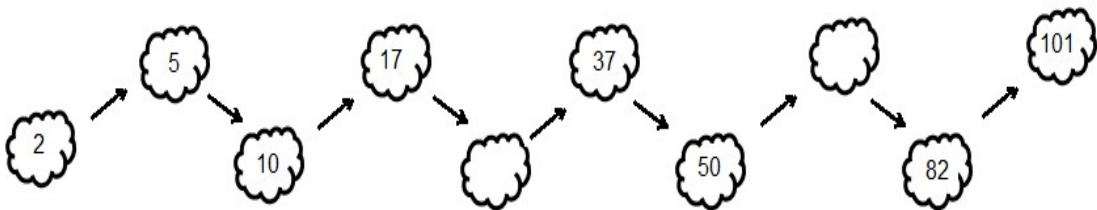
13. Calculate the median of the same set of scores.

- (A) 3
- (B) 3.5
- (C) 4
- (D) 4.5

14. If the highest and the lowest scores were removed from the data set, what would be the new mean?

- (A) 3
- (B) 4
- (C) 6
- (D) 7

15. Which TWO numbers will correctly complete the sequence below?

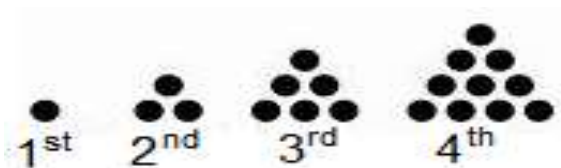


- (A) 25 and 51
- (B) 25 and 55
- (C) 26 and 64
- (D) 26 and 65

16. When 10 is added to the LCM of 6 and 9, the result is

- (A) 18
- (B) 28
- (C) 54
- (D) 66

17. Study the pattern below then select the number of dots that will complete the 5th in the pattern.

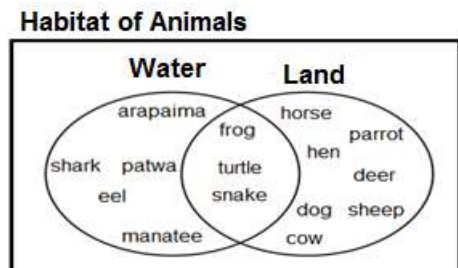


- (A) 15
- (B) 18
- (C) 20
- (D) 21

18. Which of the statements below is **incorrect**?

- (A) $(19 + 36) + 4 = 19 + (4 + 36)$
- (B) $12 \times (15 + 7) = 12 \times 15 + 12 \times 7$
- (C) $42 + 13 = 40 + 2 + 13$
- (D) $24 \div (4 + 8) = 24 \div 4 + 24 \div 8$

Study the Venn diagram below then answer questions **19 and 20**.



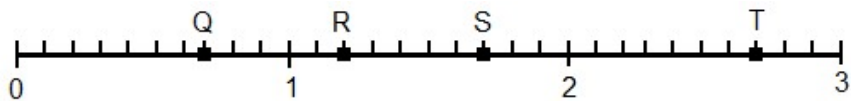
19. How many animals cannot live in water?

- (A) 3
- (B) 5
- (C) 7
- (D) 15

20. What percentage of the animals in the Venn Diagram can live both on land and in water?
- (A) 15
 - (B) 33.3
 - (C) 20
 - (D) 66.6

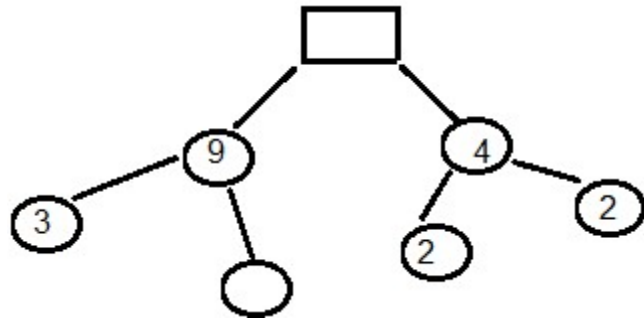
21. Sanjeev had 350 marbles and he gave $\frac{1}{5}$ of them to his friend, Rayson. How many marbles does he have remaining?
- (A) 60
 - (B) 70
 - (C) 240
 - (D) 280

22. Which point on the number line below represents $1\frac{1}{5}$?



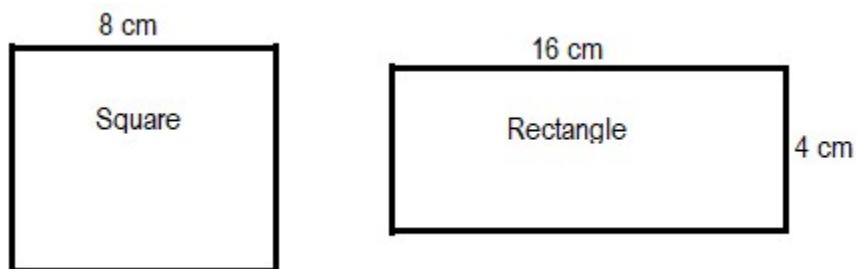
- (A) Q
- (B) R
- (C) S
- (D) T

23. What are the missing numbers in the factor tree below?



- (A) 36 and 3
- (B) 36 and 13
- (C) 13 and 3
- (D) 13 and 27

Study the diagrams below then answer questions **24** and **25**.



24. The perimeter of the square is _____ the perimeter of the rectangle.

- (A) more than
- (B) less than
- (C) equal to
- (D) exactly half

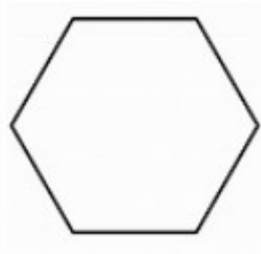
25. The area of the square is _____ the area of the rectangle.

- (A) more than
- (B) less than
- (C) equal to
- (D) exactly half

26. How many minutes are there from 09:10 hours to 14:35 hours?

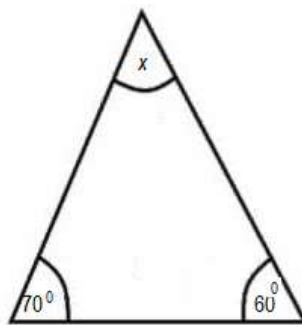
- (A) 525
- (B) 325
- (C) 300
- (D) 225

27. How many lines of symmetry does the shape below have?



- (A) 12
- (B) 6
- (C) 3
- (D) 1


28. What is the value of the angle marked x in the figure below?





- (A) 80°
- (B) 70°
- (C) 60°
- (D) 50°

29. If 1 egg tray holds 12 eggs, approximate the number of trays that will be needed to place 163 eggs.
- (A) 12
 - (B) 13
 - (C) 14
 - (D) 15
30. What is the sum of the prime numbers between 20 and 40?
- (A) 104
 - (B) 120
 - (C) 141
 - (D) 159
31. The average of 10 numbers is 65. If the average of 9 numbers is 63, what is the 10th number?
- (A) 83
 - (B) 93
 - (C) 128
 - (D) 137
32. $0.5 \times 0.7 \div 0.9 =$ (rounded to 2 decimal places).
- (A) 3.38
 - (B) 3.08
 - (C) 0.39
 - (D) 0.38
33. Himant is 5 years younger than his sister, Kia. Kia is $\frac{1}{3}$ their mother's age. If their mother is 39 years old, what is Himant's age?
- (A) 5
 - (B) 6
 - (C) 7
 - (D) 8

The chart below shows the number of cars in a parking lot during last weekend. Study it carefully then answer questions **34** and **35**.

One  represents 8 cars

Days	No. of cars
Saturday	
Sunday	

34. On Sunday there were _____ less cars in the parking lot.
- (A) 3
 (B) 6
 (C) 12
 (D) 24
35. If parking costs \$200 per car how much money was collected for the two days?
- (A) \$20 800
 (B) \$12 800
 (C) \$2 600
 (D) \$1 600
- 36 Antonio spent \$600 every week of the term for 13 weeks. At the end of the term he had \$1 200 left. How much money did he have at the beginning of the term?
- (A) \$9 000
 (B) \$8 000
 (C) \$7 800
 (D) \$7 000

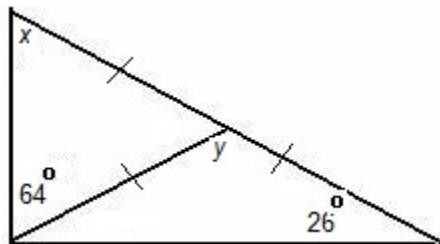
37. How many packets each weighing 180 grams can be made from a quantity of sugar weighing 28.8kg?

- (A) 160
- (B) 155
- (C) 6.50
- (D) 6.25

38. A medicine bottle contains $\frac{3}{4}$ litre of mixture which is to be taken daily in **3 doses**. If one dose is 5 millilitres, how many days would the mixture last?

- (A) 250
- (B) 50
- (C) 40
- (D) 15

Study the diagram below then answer questions **39 and 40**.



39. The angle marked x is _____ degrees.

- (A) 26
- (B) 38
- (C) 64
- (D) 128

40. The angle marked y is _____ degrees.

- (A) 26
- (B) 38
- (C) 64
- (D) 128

END OF TEST

IF YOU FINISH BEFORE TIME IS UP, CHECK YOUR WORK ON THIS ASSESSMENT

**MINISTRY OF EDUCATION
NATIONAL GRADE SIX ASSESSMENT
PRACTICE TEST # 3
MATHEMATICS
PAPER 1
MARK SCHEME - 2020**

- | | | | |
|-----|---|-----|---|
| 1. | B | 21. | D |
| 2. | B | 22. | B |
| 3. | D | 23. | A |
| 4. | A | 24. | B |
| 5. | C | 25. | C |
| 6. | A | 26. | B |
| 7. | C | 27. | B |
| 8. | A | 28. | D |
| 9. | D | 29. | C |
| 10. | B | 30. | B |
| 11. | D | 31. | A |
| 12. | C | 32. | C |
| 13. | B | 33. | D |
| 14. | B | 34. | D |
| 15. | D | 35. | A |
| 16. | B | 36. | A |
| 17. | A | 37. | A |
| 18. | D | 38. | B |
| 19. | C | 39. | C |
| 20. | C | 40. | D |