

Duration : 60 min.
Class : 3rd

Maximum Marks : 180
Subject : MATHEMATICS



International Talent Search Examination - 2022-23

अंतराष्ट्रीय प्रतिभा खोज परीक्षा - २०२२-२३

Organized by

Savitri Skill Development Institute, Training Partner with
Ministry of Micro Small & Medium Enterprises (MSME), Govt. of India.



TEST BOOKLET

Name :

Class : School:

Father's Name : Father's Occupation :

Mother's Name : Mother's Occupation :

Categories : Gen OBC SC ST

Correspondence Address :

Date of Birth :

Father's Contact No :

Home/Mother's Contact No. :

WhatsApp No. :

Basic Instructions:





- Ensure that your personal data has been entered correctly.
- Immediately after opening the test booklet verify that all the pages are printed properly and are in order. If there is a problem with your test booklet, immediately inform the invigilator. You will be provided with the replacement.
- All questions are compulsory.
- For every correct answer you will be awarded with 4 marks and for all incorrect answer 1 mark will be deducted.
- Directions for answering the questions are given. Read those directions carefully and answer the question by circling the bubble in the OMR Sheet Provided to you. Test booklet/OMR Sheet will be submitted at the end of the examination.
- Follow the instructions given by the invigilator. Students found violating the instructions will be disqualified.
- Rough work can be done separately or on the Question paper.
- Please fill the bubbles in OMR sheet with Blue or Black pen only.
- Do not tear the question paper or OMR sheet else you will be disqualified in the examination.

CLASS-3 MATHEMATICS

1. Tern and Mike each bought 70 donuts from a bakery. The total number of donuts they bought can be found using the expression shown below.

$$2 \times 70$$

What is the total number of donuts Tern and Mike bought from the bakery?

- A) 72 donuts B) 104 donuts C) 140 donuts D) 270 donuts
2. Vmce covered $\frac{1}{6}$ cakes with frosting. He marked a point on a number line to show how many cakes he covered with frosting. Which number line shows the point Vmce marked?
- A)  B)  C)  D) 
3. Sanders ran for 22 minutes. Gabe ran 7 minutes longer than Sanders did. Helen ran 12 minutes less than Gabe. For how many minutes did Helen run?
- A) 3 minutes B) 17 minutes C) 27 minutes D) 41 minutes
4. Maria spends \$9 on lunch each day she is at work. To find how much money she spends on lunch during a 5-day workweek she solves the expression below.

$$5 \times 9$$

How much money does Maria spend on lunch during a 5-day workweek?

- A) \$40 B) \$45 C) \$50 D) \$59
5. Anita ran part of a 1-mile relay race. The part of the race she ran is shown on the number line below.



Anita started at point X and finished at point Y. What fraction of the 1-mile relay race did she run?

- A) $\frac{1}{6}$ B) $\frac{1}{5}$ C) $\frac{2}{7}$ D) $\frac{4}{6}$
6. Samantha has 342 baseball cards. Perry has 184 baseball cards. The difference between the number of baseball cards Samantha and Perry have can be found by solving the expression below.

$$342 - 184$$

How many more baseball cards does Samantha have than Perry?

- A) 158 B) 162 C) 242 D) 268
7. Maggie bought 56 straws. For \square days her family used 7 new straws each day. Maggie used the number sentence below to find how many days the family took to use all the straws.

$$56 \div \square = 7$$

How many days did Maggie's family take to use all the straws?

- A) 8 days B) 27 days C) 49 days D) 63 days
8. Wendy bought 30 packs of gum. Each pack had 5 pieces. She used the expression below to find the number of pieces of gum she bought.

$$30 \times 5$$

Which other expression could Wendy use to find the number of pieces of gum she bought?

- A) $3 \times 5 + 10$ B) $3 \times 5 \times 10$ C) $3 \times 10 + 5$ D) $3 + 10 + 5$
9. The width, in inches, of three of Yi's buttons are shown in the table.

Yi's Buttons	
Buttons	Width (inches)
blue	$\frac{3}{4}$
red	$\frac{3}{8}$
green	$\frac{5}{8}$

Which statement about the widths of Yi's buttons must be true?

- A) The width of the blue button is less than the width of the red button because $\frac{3}{4} < \frac{3}{8}$.
- B) The width of the red button is less than the width of the green button because $\frac{3}{8} < \frac{5}{8}$.
- C) The width of the blue button is equal to the width of the red button because $\frac{3}{4} = \frac{3}{8}$.
- D) The width of the green button is greater than the width of the blue button because $\frac{5}{8} > \frac{3}{4}$.

10. Polly set up chairs for a meeting. She set up 7 rows of chairs. There were 9 chairs in each row. The number of chairs Polly set up for the meeting can be found by solving the expression below.

$$9 \times 7$$

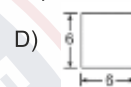
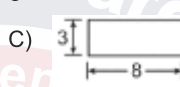
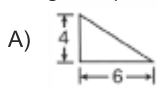
How many chairs did Polly set up for the meeting?

- A) 53 chairs B) 61 chairs C) 63 chairs D) 79 chairs
11. Liam broke a candy bar into equal pieces. He gave away $\frac{3}{3}$ of it. Which number is equal to the fraction of the candy bar Liam gave away?
- A) 1 B) 3 C) 6 D) 9
12. Michelle has 7 packages of crayons. Each package has \square crayons. She has a total of 42 crayons. Michelle uses the number sentence below to find how many crayons are in each package.

$$7 \times \square = 42$$

How many crayons are in each of Michelle's packages?

- A) 6 crayons B) 8 crayons C) 35 crayons D) 49 crayons
13. Milan is giving away 18 stickers to 3 of his friends. He gives each friend the same number of stickers. One of the friends, Nelly, already had 2 stickers. Which number sentence can be used to find the total number of stickers, n , Nelly has?
- A) $18 - 3 \times 2 = n$ B) $18 - 3 + 2 = n$ C) $18 + 3 + 2 = n$ D) $18 + 3 \times 2 = n$
14. Vang multiplies two numbers. His answer is 24. Which figure could model Vang's multiplication?



15. A package of paper towels has 12 rolls of paper towels in it. Mr. Kelly will put an equal number of rolls of paper towels in 4 rooms. He uses the number sentence below to find the number of rolls of paper towels, t , he will put in each room.

$$12 + t = 4$$

Which number sentence can Mr Kelly use to find the number of rolls of paper towels, t , he will put in each room?

- A) $4 + 12 = t$ B) $4 - t = 12$ C) $4 + 12 = t$ D) $4 \times t = 12$
16. Jimmy and Kima are going on a trip. They will drive for three days. The first day they will drive 182 miles. The second day they will drive 439 miles. The third day they will drive 217 miles. Which expression is the **closest** estimate of how many miles Jimmy and Kima will drive on their trip?
- A) $100 + 400 + 200$ B) $200 + 400 + 200$ C) $200 + 500 + 200$ D) $200 + 500 + 300$
17. Brooke's baby, Ryan, weighed 7 pounds when he was born. Brooke weighed her baby each month after he was born. Ryan's weight each month, in pounds, is shown in the table below.

Ryan's Weight

Age	Weight (pounds)
birth	7
1 month	9
2 months	11
3 months	13
4 months	15

Which statement about the weight of the baby is true?

- A) The baby gained 1 pound each month. B) The baby gained 2 pounds each month.
- C) The baby gained 9 pounds in the first month. D) The baby gained 15 pounds in the last month.
18. Jason is measuring the lengths of different insects, in inches. He plots the lengths on the number line below.







The length of the first insect Jason measured is $\frac{9}{8}$ of an inch. Between which two points on the number line is the location of the length of the first insect?

- A) points A and B B) points B and C C) points C and D D) points D and E

19. Shodi earned 389 points in the first level of her video game. She earned 116 more points in the bonus round. The total number of points Shodi earned can be found by solving the expression below.

$$389 + 116$$

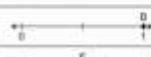
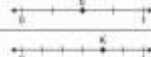
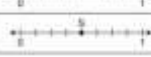

How many total points did Shodi earn?

- A) 405 B) 495 C) 505 D) 595
20. Which pair of squares has the same fraction shaded?
- A)  B)  C)  D) 
21. Ms. Fisher wants to find the total number of markers needed for an art project. She uses the expression below to find how many markers she needs.

$$(2 \times 6) \times 8$$

Which expression is equal to the one used by Ms. Fisher?

- A) $2 + (6 + 8)$ B) $2 + (6 \times 8)$ C) $2 \times (6 + 8)$ D) $2 \times (6 \times 8)$
22. There are four baseball teams. Each team has played some of its games this season. The fractions of games won are shown in the table below. The fractions of games won are also represented by the number lines in the table.

Baseball Teams		
Team	Fraction of Games Won	Number Line
Bison	$\frac{2}{5}$	
Eagles	$\frac{2}{4}$	
Knights	$\frac{1}{5}$	
Sharks	$\frac{4}{5}$	

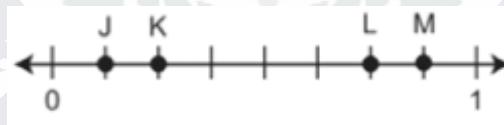
Two teams have won the same fraction of games. Which sentence explains how the number lines show this?

- A) The Bison and the Eagles are each 2 spaces from 0.
 B) The Knights and the Sharks are each 4 spaces from 0.
 C) The Eagles and the Knights are each the same distance from 1.
 D) The Eagles and the Sharks are each the same distance from 0 and 1.
23. Addison has 72 CDs. She put the same number of CDs into each of her 8 CD cases. The total number of CDs Addison put into each case can be found by solving the expression below.

$$72 \div 8$$

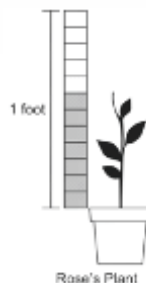
How many CDs did Addison put into each case?

- A) 7 CDs B) 9 CDs C) 12 CDs D) 16 CDs
24. Carmen has 4 tomatoes she will eat this week. The weight, in pounds, of each tomato is shown on the number line below.



The first tomato Carmen will eat weighs $\frac{1}{5}$ of a pound. Which point on the number line represents the first tomato Carmen will eat?

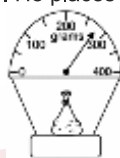
- A) J B) K C) L D) M
25. In science class, Rose kept track of the height of her plant. The height of her plant after 3 weeks is shown in the picture below.



What fraction of a foot is the height of Rose's plant?

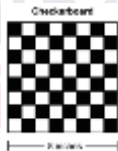
- A) $\frac{5}{7}$ B) $\frac{7}{5}$ C) $\frac{5}{12}$ D) $\frac{7}{12}$

26. Which story problem can be solved using the expression 3×4 ?
- Missy, Margo, and Davis buy some pears at the store. They each buy 4 pears. How many pears do they have altogether?
 - Missy lives 3 miles from school. Kerry lives 4 miles from school. How much farther does Kerry live from school than Missy?
 - Missy, Liz, Dao, and Larry have a total of 4 feet of rope. They each have the same length of rope. How much rope does each person have?
 - Missy has 3 pounds of strawberries. She gives the same amount to each of 4 friends. How many pounds of strawberries does each friend get?
27. Bob is buying gummy bears at the grocery store. He places his bag of gummy bears on the scale shown below.



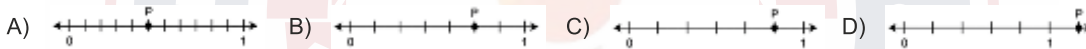
What is the best estimate of the mass, in grams, of Bob's gummy bears?

- A) 250 grams B) 275 grams C) 325 grams D) 350 grams
28. A drawing of a square checkerboard is shown.



The length of each side of the checkerboard is 8 inches. All of the black and white squares are the same size. What is the perimeter of one of the black squares on the checkerboard?

- A) 1 inch B) 4 inches C) 32 inches D) 64 inches
29. Paula finished $\frac{5}{6}$ of her homework. Which number line marks the fraction of Paula's homework that is finished with point P?



30. Randy and Chrissy eat some of the blueberries from a package for a snack. Randy eats $\frac{1}{4}$ of the blueberries from the package. Chrissy eats $\frac{1}{3}$ of the blueberries from the package. Which statement about the amount of blueberries Randy and Chrissy each eat is true?
- Since the two fractions do not refer to the same whole, it is not possible to tell who eats more blueberries.
 - Since fractions that have different denominators cannot be compared, it is not possible to tell who eats more blueberries.
 - Since smaller denominators mean bigger fractions, then $\frac{1}{3} > \frac{1}{4}$, which means Chrissy eats more blueberries than Randy.
 - Since bigger denominators mean bigger fractions, then $\frac{1}{4} > \frac{1}{3}$, which means that Randy eats more blueberries than Chrissy.
31. Skyler has two groups of quadrilaterals. The first group has quadrilaterals with angles that all have the same measure. The second group has quadrilaterals with sides that all have the same length. Which quadrilateral does Skyler not have?

- A) B) C) D)

32. Use the number pattern below to answer the question.
24, 41, 58, 75, 92



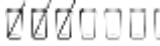
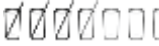
Which statement about the number pattern is true?

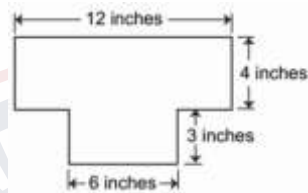
- The rule is Add 3 to the second digit.
 - The rule is Add 23 to the last number.
 - An even number is added to find the next number.
 - An odd number is added to find the next number.
33. Dia made a drawing. Her drawing is shown below.



Which figure can be used to measure the area of Dia's drawing?

- A) B) C) D)

34. Meg put a straw in $\frac{3}{4}$ of the glasses on a table. Which model could show all the glasses on the table after Meg put in the straws?
- A)  B)  C)  D) 
35. Dirk drew a shape. The shape has exactly 4 angles. The angles are not all the same size. Which shape could be the shape Dirk drew?
- A) parallelogram B) rectangle C) square D) triangle
36. Peter is in a group of 25 people. All 25 people went fishing in boats. There were 5 people in each boat. How can Peter find the number of boats the group used?
- A) Add 5 to 25 B) Divide 25 by 5 C) Multiply 25 by 5 D) Subtract 5 from 25
37. Dezi made a poster in the shape shown below.



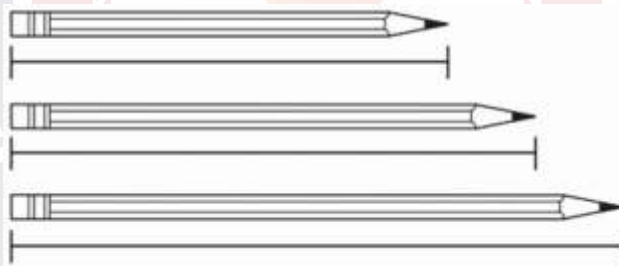
What is the area, in square inches, of Dezi's poster?

- A) 25 square inches B) 32 square inches C) 48 square inches D) 66 square inches

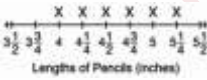
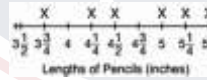
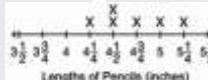
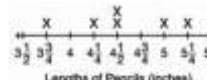
38. Chuck has six pencils. The lengths of three of his pencils are listed below.

$4\frac{1}{2}$ inches, 5 inches, $4\frac{1}{4}$ inches

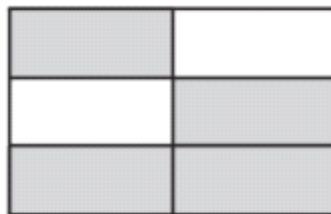
The length of Chuck's other three pencils are shown in the diagram below.



Which line plot shows the lengths, in inches, of Chuck's six pencils?

- A)  B)  C)  D) 

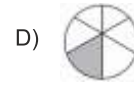
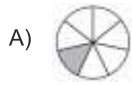
39. Use the model below to answer the question.



What fraction of the model is shaded?

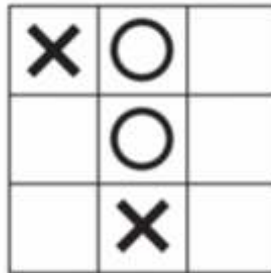
- A) $\frac{2}{4}$ B) $\frac{4}{6}$ C) $\frac{4}{2}$ D) $\frac{6}{4}$

40. Claire made a circle graph. The graph shows that $\frac{1}{6}$ of the students in her class can whistle. Which circle graph's shaded area shows the fraction of students in her class who can whistle?



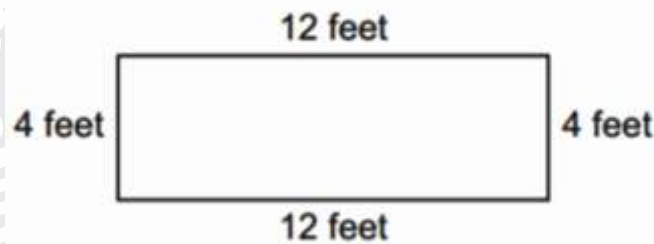
41. Isaac and Jana are playing tic-tac-toe on the game board shown below.

Tic-Tac-Toe Game Board



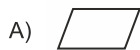
Each of the squares equals 1 square inch. What is the total area, in square inches, of the blank squares on the game board?

- A) 3 square inches B) 4 square inches C) 5 square inches D) 9 square inches
42. Mr. Bennet drew the plan of his new garden as shown below.



How many feet of fencing will Mr. Bennet need to go around his garden?

- A) 16 feet B) 24 feet C) 32 feet D) 48 feet
43. John has 4 carrots. Sara has 2 more carrots than John. Darius has 3 times as many carrots as Sara. How many carrots does Darius have?
- A) 9 B) 14 C) 18 D) 24
44. Mandy drew a quadrilateral that is a rhombus but not a square. Which quadrilateral could be the one that Mandy drew?



45. Use the expression below to answer the question.

$$(3 + 4) \times 5$$

Which set of counters shows the expression above?



