

MATHEMATICS

6. What decimal represents the shaded part?



- a) 0.7 b) 0.07 c) 7.0 d) 0.77

7. Here is a chart of four students and the money they collected:

Name Amount Collected

Riya ₹7,250

Amaan ₹8,750

Meera ₹6,900

Dev ₹7,850

8. Who collected the second highest amount?

- a) Riya b) Dev c) Meera d) Amaan

9. *How many are correct?*

Which of the following numbers are divisible by 5?

- 4,275
- 8,406
- 1,550
- 3,648

- a) 1 b) 2 c) 3 d) 4

10. *True/False with reasoning:*

Statement A: 0.2 is greater than 0.19

Statement B: 0.02 is greater than 0.2

- a) Both True b) Both False
c) Only A is true d) Only B is true

11. *True/False with reasoning:*

Statement A: All numbers divisible by 10 end in 0.

Statement B: All numbers ending in 0 are divisible by 10

- a) Both True b) Both False
c) Only A is true d) Only B is true

12. Estimate the sum: $3,482 + 5,617 \approx ?$

- a) 9,000 b) 10,000 c) 8,000 d) 9,500

13. What does a bar graph represent?

- a) The relationship between two numerical values
b) The distribution of data over time
c) The frequency of different categories of data
d) The average value of data

14. Find the mode of the following data set:

12, 15, 17, 15, 18, 19, 15, 20, 17, 17

- e) 15 b) 17 c) 18 d) 19

14. What is the successor of 19?

- a) -18 b) -20 c) -17 d) 19

15. Which number is farthest to the left on a number line?

- a) -21 b) -15 c) -10 d) 0

16. *Which is correct?*

- a) $-7 > 3$ b) $-2 < -9$
c) $-8 > -3$ d) $-1 > -6$

17. *How many are correct?*

Which of the following integers are less than 0?

- -5
- 3
- -9
- 0

- a) 1 b) 2 c) 3 d) 4

18. What is the smallest whole number?

- a) -1 b) 0 c) 1 d) 2

19. Which of the following is a whole number but not a natural number?

- a) 0 b) 1 c) 2 d) 3

20. What number is 2 steps after 3?



- a) 4 b) 5 c) 6 d) 7

21. What is the sum of the first five whole numbers?

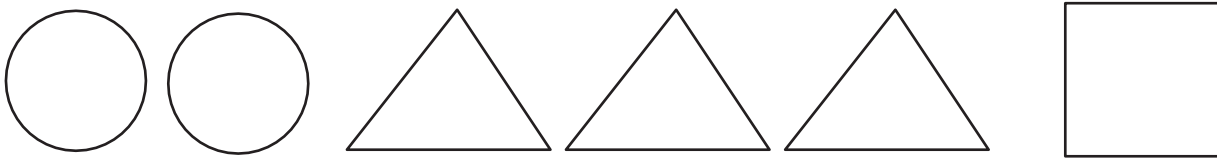
- a) 10 b) 15 c) 5 d) 20

22. *Cross-topic blend (Whole number + Multiples):*

Which is a multiple of both 4 and 6?

- a) 20 b) 24 c) 26 d) 30

23. Which set shows the collection of triangles?



- a) {circle, square}
b) {2 triangles}
c) {triangle, triangle, triangle}
d) {3 shapes}

24. *How many are correct?*

Which of the following can be considered as sets?

- Set of even numbers
- Set of tasty dishes
- Set of prime numbers below 10
- Set of old books in a library

- a) 1 b) 2 c) 3 d) 4

25. *Match the following:*

Set Description	Set Type
$A = \{2, 4, 6\}$	a. Infinite Set
$B = \{\text{even numbers}\}$	b. Finite Set
$C = \{\}$	c. Empty Set

- a) A-b, B-a, C-c
- b) A-a, B-c, C-b
- c) A-c, B-b, C-a
- d) A-b, B-c, C-a

26. What is $\frac{3}{5}$ of 20?

- a) 10 b) 12 c) 14 d) 15

27. *True/False with reasoning:*

Statement A: A proper fraction is less than 1.

Statement B: $\frac{7}{7}$ is a proper fraction.

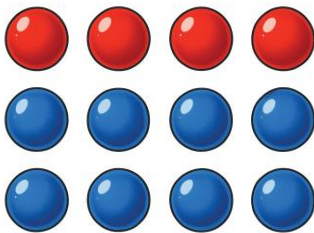
- a) Both True
- b) Both False
- c) Only A is true
- d) Only B is true

28. *Which is correct?*

Which pair is in proportion?

- a) 2:3 and 4:5 b) 3:6 and 6:12
- c) 5:2 and 10:3 d) 1:2 and 2:4

What is the ratio of red to blue marbles?



- a) 4:12 b) 1:3 c) 2:3 d) 1:2

29. *How many are correct?*

Which of the following represent the ratio 3:4?

- 6:8
- 9:12
- 12:16
- 4:5

- a) 1 b) 2 c) 3 d) 4

30. Which is the correct expression for "7 more than a number x"?

- a) $7x$ b) $x-7$ c) $x+7$ d) $7-x$

31. *Match the following:*

Statement	Expression
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3 more than a number y	a. $y + 3$
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5 times a number x	b. $5x$
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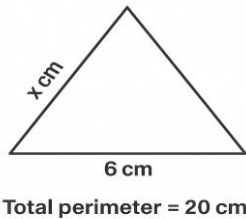
A number a decreased by 2	c. $a - 2$
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- a) 1-a, 2-b, 3-c
- b) 1-b, 2-c, 3-a
- c) 1-c, 2-a, 3-b
- d) 1-a, 2-c, 3-b

32. What is the algebraic expression for "a number n subtracted from 10"?

- a) $10 + n$
- b) $n - 10$
- c) $10 - n$
- d) $10n$

33. What is the value of x if the third side is also 6 cm?



- a) 8
- b) 6
- c) 10
- d) 12

34. Match the following:

Word Statement	Algebraic Expression
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Double a number x	a. $x \div 2$
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Half of a number y	b. $2x$
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3 more than a number z	c. $z + 3$
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- a) 1-b, 2-a, 3-c
- b) 1-a, 2-b, 3-c
- c) 1-c, 2-a, 3-b
- d) 1-b, 2-c, 3-a

35. Which of the following is a line segment?

- a) Extends forever in both directions
- b) Has a starting point but no end
- c) Has two endpoints
- d) Is curved and closed

36. What is this figure?



- a) Line AB
- b) Line segment AB
- c) Ray AB
- d) Triangle AB

37. Which of the following is a polygon?

- a) A figure with curved lines
- b) A closed figure with 3 or more straight sides
- c) A circle
- d) A ray

38. *True/False with reasoning:*

Statement A: A circle has no sides.

Statement B: A triangle is a polygon.

- a) Both True
- b) Both False
- c) Only A is true
- d) Only B is true

39. *How many are quadrilaterals?*

- Square
- Triangle
- Rhombus
- Rectangle

- a) 1
- b) 2
- c) 3
- d) 4

40. A circle is divided into 4 equal parts. What is the angle of each part?

- a) 45°
- b) 60°
- c) 90°
- d) 180°

41. Which of these figures has 2 lines of symmetry?

- a) Circle
- b) Rectangle
- c) Equilateral triangle
- d) Square

42. How many lines of symmetry does the shape have?



- a) 0
- b) 1
- c) 2
- d) 3

43. What is the area of a rectangle of length 7 cm and breadth 4 cm?

- a) 22 cm^2
- b) 28 cm^2
- c) 14 cm^2
- d) 11 cm^2

44. Find the median of the following data set:

10, 15, 8, 12, 20

- a) 10
- b) 12
- c) 8
- d) 20

39. *True/False with reasoning:* Statement

A: A circle has no sides. Statement B: A triangle is a polygon.

- a) Both True
- b) Both False
- c) Only A is true
- d) Only B is true

40. *How many are quadrilaterals?*

- Square
- Triangle
- Rhombus
- Rectangle

- a) 1 b) 2 c) 3 d) 4

41. A circle is divided into 4 equal parts. What is the angle of each part?

- a) 45° b) 60° c) 90° d) 180°

42. Which of these figures has 2 lines of symmetry?

- a) Circle
- b) Rectangle
- c) Equilateral triangle
- d) Square

43. The perimeter of a square is 36 cm. What is its area?

- a) 36cm^2 b) 81cm^2 c) 144cm^2 d) 324cm^2

44. What is the area of a rectangle of length 7 cm and breadth 4 cm?

- a) 22 cm^2 b) 28 cm^2 c) 14 cm^2 d) 11 cm^2

45. Find the median of the following data set: 10,

15, 8, 12, 20

- a) 10 b) 12 c) 8 d) 20

46. How many are symmetrical?

- Square
- Rectangle
- Circle
- Irregular Polygon

a) 1 b) 2 c) 3 d) 4

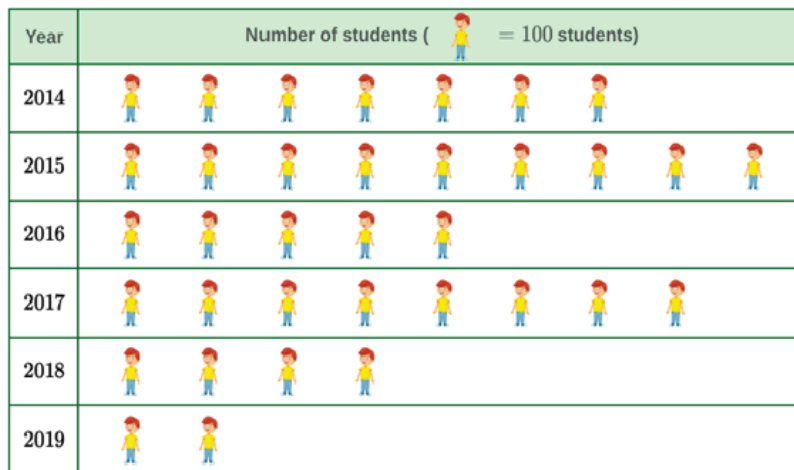
47. A cube has how many faces, edges, and vertices?

- a) 6, 8, 12 b) 6, 12, 8
c) 8, 6, 12 d) 12, 8, 6

48. What type of angle is shown between the hour and minute hand?

- a) Acute b) Right
c) Obtuse d) Straight

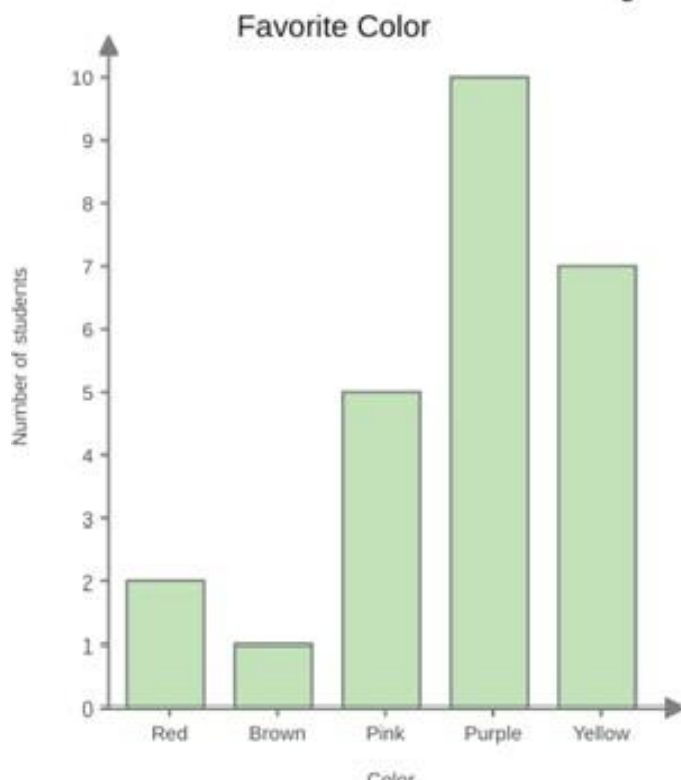
49. The following pictograph shows the total number of students of a school in different years.



How many students were there in year 2015?

- a. 2019, 900 b. 2019, 200
c. 2015, 900 d. 2015, 200

50. The bar graph below shows the favorite color of the students in Mr. Angel's class.



How many more students in Mr. Angel's class like Purple than Pink?

a. 15

b. 7

c. 5

d. 10

Answer Key

1.c	2.b	3.d	4.a	5.b	6.a	7.b	8.b	9.c	10.a
11.b	12.c	13.b	14.a	15.a	16.d	17.b	18.b	19.a	20.c
21.b	22.b	23.c	24.b	25.a	26.d	27.c	28.d	29.d	30.c
31.	32.a	33.c	34.a	35.a	36.c	37.c	38.b	39.a	40.c
41.c	42.b	43.b	44.b	45.c	46.c	47.b	48.b	49.c	50.c