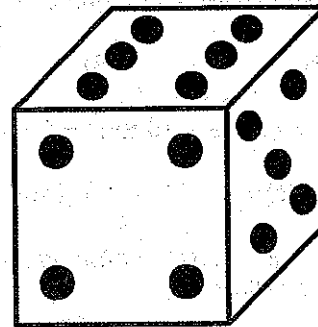


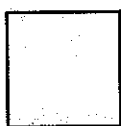
23. A rectangular piece of land measures 40 m x 10 m. If its length increases by 5 m and its width increases by 4 m, then its perimeter will increase by
- A) 18 m B) 20 m C) 16 m D) 14 m E) 22 m
24. I weigh 30 kg more than one third of my weight. How many kilograms do I weigh?
- A) 50 kg B) 40 kg C) 45 kg D) 44 kg E) 46 kg
25. The sum of 3 consecutive natural numbers is 63. What is the sum of the first one and the third one?
- A) 39 B) 40 C) 41 D) 42 E) 43
26. If you could spend \$1 every 24 seconds, how much could you spend in 24 minutes?
- A) \$50 B) \$58 C) \$60 D) \$72 E) \$24
27. A die is rolled once. What is the probability of getting an odd number?
- A) 3/6 B) 1/6 C) 2/6 D) 4/6 E) 5/6
28. Five runners: A, B, C, D, and E participate in a race. B is the fastest. A is faster than D, but slower than C. If E finishes in third place, who finishes in fourth?

- A) B B) A C) D
D) E E) C

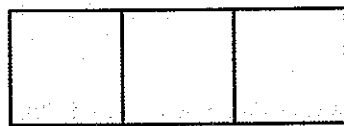
29. How many even multiples of 5 are there between 0 and 100?
- A) 8 B) 11 C) 9
D) 20 E) 10



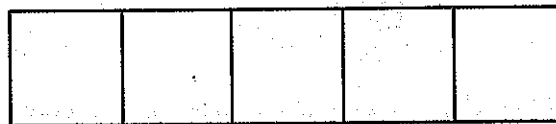
30. Matusalem has formed a sequence using identical squares whose sides measure 1 cm. Under each figure (term) in the sequence, he has written the perimeter of the figure. The figure that has a perimeter of 100 cm is made of



4 cm



8 cm



12 cm

- A) 53 squares B) 47 squares C) 45 squares D) 49 squares E) 51 squares

MATH PRACTICE PAPER

Q.1) The total weight of 7 giant carrots, each weighing 700g is _____.

- a) 100 b) 490 c) 700 d) 4900

Q.2) In value, 10 nickels + 10 dimes = 15 _____

- a) pennies b) nickels c) dimes d) Quarters

Q.3) $(11 + 10 + 1) - (11 - 10 - 1) = ?$

- a) 22 b) 11 c) 10 d) 0

Q.4) If all beavers work at the same rate, and if 6 beavers can clear the trees from a lot in 36 hours, how many hours would it take 12 beavers to clear these same trees?

- a) 18 b) 24 c) 54 d) 72

Q.5) The perimeter of a square is 24. The total length of its 3 sides is

- a) 6 b) 8 c) 12 d) 18

Q.6) If 20 is subtracted from 4 times _____, the result is 100.

- a) 20 b) 30 c) 80 d) 120

Q.7) 6002 is 2006 more than

- a) 3996 b) 4004 c) 4006 d) 8008

Q.8) In the large “magic square” shown, the sums of the numbers in every row and column are equal. What number should appear in the empty row?

34	153	68
119	85	
102	17	136

Q.9) My 11 books have a total of 2175 pages. If 5 of my books have 315 pages each, then my other 6 books have a total _____ pages.

- a) 700 b) 600 c) 550 d) 500

Q.10) The number of non-zero digits in the product of 3000 and 30,000 is

- a) 1 b) 2 c) 3 d) 9

Q.11) Twice the number of pencils I have equals three times the number you have. If I have 24 pencils, then you have ____ pencils.

- a) 4 b) 8 c) 12 d) 16

Q.12) The number of non-zero digits in the product of 3000 and 30,000 is

- a) 1 b) 2 c) 3 d) 9

Q.13) What is the product of the 3 odd numbers which are greater than 3 and less than 11?

- a) 21 b) 35 c) 105 d) 315

Q.14) How many 4 digit natural numbers greater than 2000 have the same digits as 2017(including 2017)?

- a) 10 b) 16 c) 14 d) 12 e) 18

Q.15) Five runners: A, B, C, D, E participate in a race. B is the fastest. A is faster than D, but slower than C. If E finishes in third place, who finishes fourth?

- a) B b) A c) C d) E e) D

Mathematica Centrum

Together, let's shape the mathematicians of the future

1. $734 - 530 = ?$

- A) 234 B) 204 C) 304 D) 230 E) 332

2. A number divided by 4 gives 4. If 5 is subtracted from this number, the result will be

- A) 10 B) 15 C) 12 D) 11 E) 14

3. The fifth letter after the ninth letter of the alphabet is the letter

- A) m B) n C) o D) p E) q

4. What is the sum of the two unknown terms (X and Y) in the sequence: 5, 10, 15, 20, X, Y, 35 ...?

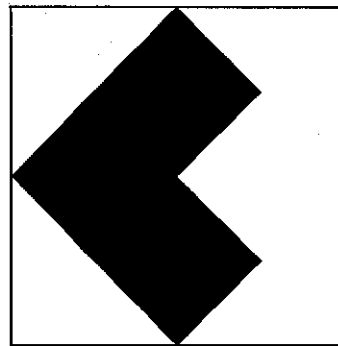
- A) 40 B) 50 C) 55
D) 60 E) 45

5. 10 nickels = 2 quarters + ? dimes.

- A) 1 B) 4 C) 3
D) 2 E) 0

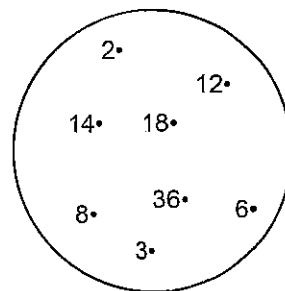
6. What fraction of the large square does the shaded area represent?

- A) $\frac{6}{16}$ B) $\frac{7}{16}$ C) $\frac{1}{4}$
D) $\frac{5}{16}$ E) $\frac{3}{16}$



7. How many elements of the set shown are divisors of 36?

- A) 4 B) 2 C) 3
D) 6 E) 5



8. One half of one half of 20 plus 3 is equal to

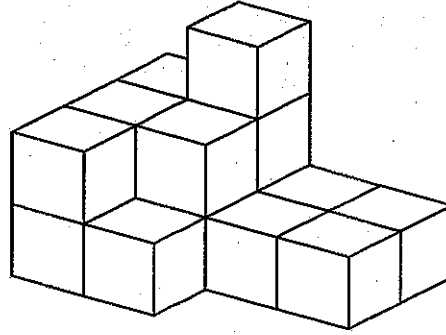
- A) 7 B) 8 C) 9
D) 11 E) 10

9. How many blocks are there in the pile?

- A) 10 B) 12 C) 16
D) 13 E) 14

10. The number of faces of a cube plus the number of vertices of a cone plus the number of sides of an hexagon is equal to

- A) 12 B) 13 C) 11
D) 10 E) 14

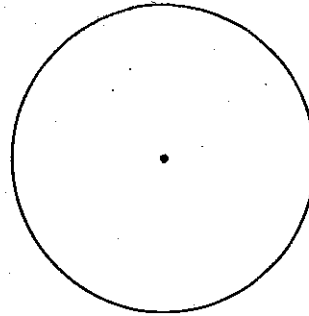


11. How many odd 3-digit natural numbers can be formed using the digits 2, 7, and 8?

- A) 4 B) 5 C) 3
D) 2 E) 6

12. A round pizza is cut through its centre. How many pieces of pizza can be eaten, if it is cut 8 times?

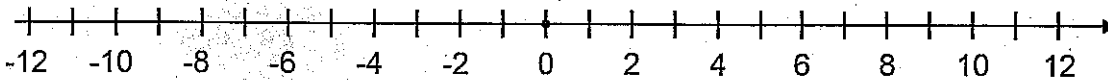
- A) 8 B) 16 C) 14
D) 12 E) 18



13. 10 cm = ? dm

- A) 100 B) 50 C) 1 000 D) 1 E) 10

14. The initial temperature in a northern city was 9 degrees. If the temperature decreased by 2 degrees each day for 6 consecutive days, then increased by 3 degrees each day for 3 consecutive days, what was the final temperature after 9 days?



- A) 0 degree B) -3 degrees C) -2 degrees D) 5 degrees E) 6 degrees

15. How many natural numbers between 99 and 150 are odd?

- A) 23 B) 24 C) 25 D) 26 E) 27

16. If a heart beats 10 times in 5 seconds, how many times does it beat in 1 minute?

- A) 120 times B) 100 times C) 110 times D) 90 times E) 130 times

17. When a natural number is divided by 3, the remainder is odd. This number could not be

- A) 16 B) 5 C) 13 D) 10 E) 7

18. Use the information below to find the unknown value.

$$\sqrt{4} = 2, \sqrt{9} = 3, \sqrt{16} = 4, \sqrt{25} = ?$$

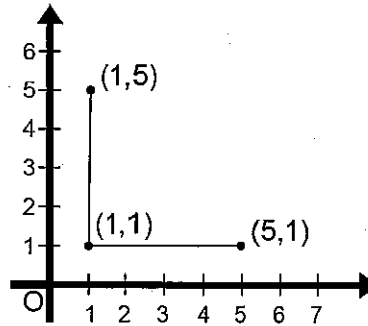
- A) 3 B) 4 C) 5 D) 6 E) 7

19. With 2 oranges, you can prepare 120 ml of juice. How many oranges do you need to prepare 720 ml of juice?

- A) 10 B) 9 C) 11
D) 12 E) 8

20. How many of the following points: (2, 0), (2, 4), (4, 6), (6, 4), and (3, 3) are on the same vertical straight line?

- A) 2 B) 3 C) 4
D) 5 E) 0



Name: _____

SQUARE ROOTS OF PERFECT SQUARES | 1 - 625

$$\sqrt{1} = 1$$
$$\sqrt{(1 \times 1)} = 1$$

$$\sqrt{4} = 2$$
$$\sqrt{(2 \times 2)} = 2$$

$$\sqrt{9} = 3$$
$$\sqrt{(3 \times 3)} = 3$$

$$\sqrt{16} = 4$$
$$\sqrt{(4 \times 4)} = 4$$

$$\sqrt{25} = 5$$
$$\sqrt{(5 \times 5)} = 5$$

$$\sqrt{36} = 6$$
$$\sqrt{(6 \times 6)} = 6$$

$$\sqrt{49} = 7$$
$$\sqrt{(7 \times 7)} = 7$$

$$\sqrt{64} = 8$$
$$\sqrt{(8 \times 8)} = 8$$

$$\sqrt{81} = 9$$
$$\sqrt{(9 \times 9)} = 9$$

$$\sqrt{100} = 10$$
$$\sqrt{(10 \times 10)} = 10$$

$$\sqrt{121} = 11$$
$$\sqrt{(11 \times 11)} = 11$$

$$\sqrt{144} = 12$$
$$\sqrt{(12 \times 12)} = 12$$

$$\sqrt{169} = 13$$
$$\sqrt{(13 \times 13)} = 13$$

$$\sqrt{196} = 14$$
$$\sqrt{(14 \times 14)} = 14$$

$$\sqrt{225} = 15$$
$$\sqrt{(15 \times 15)} = 15$$

$$\sqrt{256} = 16$$
$$\sqrt{(16 \times 16)} = 16$$

$$\sqrt{289} = 17$$
$$\sqrt{(17 \times 17)} = 17$$

$$\sqrt{324} = 18$$
$$\sqrt{(18 \times 18)} = 18$$

$$\sqrt{361} = 19$$
$$\sqrt{(19 \times 19)} = 19$$

$$\sqrt{400} = 20$$
$$\sqrt{(20 \times 20)} = 20$$

$$\sqrt{441} = 21$$
$$\sqrt{(21 \times 21)} = 21$$

$$\sqrt{484} = 22$$
$$\sqrt{(22 \times 22)} = 22$$

$$\sqrt{529} = 23$$
$$\sqrt{(23 \times 23)} = 23$$

$$\sqrt{576} = 24$$
$$\sqrt{(24 \times 24)} = 24$$

$$\sqrt{625} = 25$$
$$\sqrt{(25 \times 25)} = 25$$

Find the square root.

$$\sqrt{121} =$$

$$\sqrt{16} =$$

$$\sqrt{81} =$$

$$\sqrt{1} =$$

$$\sqrt{4} =$$

$$\sqrt{49} =$$

$$\sqrt{100} =$$

$$\sqrt{25} =$$

$$\sqrt{144} =$$

$$\sqrt{9} =$$

$$\sqrt{36} =$$

$$\sqrt{64} =$$

