MULTI QUIZ

MATHEMATICS

YES/NO

1. Is 6 a perfect number?

- [ ] No
- [ ] Yes

INTEGER

2. How many minutes are 300 seconds?

Answer: _____

INTEGER

3. Maria is 8 years old. Paul was 4 years ago 2 times older than Maria. How old is Paul now?

Answer: _____

ABCD

4. What is the calculating machine designed by Blaise Pascal in the 17th century called?

- [ ] Abacus
- [ ] Arithmometer
- [ ] Counting frame
- [ ] Pascaline

INTEGER

5. How many sides does a square have?

Answer: _____

INTEGER

6. How many degrees do complementary angles add up to?

Answer: _____

INTEGER

7. What is the greatest common divisor of the numbers 9 and 6?

Answer: _____

INTEGER

8. How many lines of symmetry does a square have?

Answer: _____

INTEGER

9. How many tiles are in the most popular domino set, in which the highest value is 6 pips?

Answer: _____

± You can be off by 4.

YES/NO

10. Is pi (π) a rational number?

☐ No ☐ Yes

INTEGER

11. How many full weeks are there in a calendar year?

Answer: _____

± You can be off by 2.

INTEGER

12. How many degrees do the angles of a quadrilateral add up to?

Answer: _____

YES/NO

13. Is there a number larger than all other numbers?

☐ No ☐ Yes

INTEGER

14. How many sides of equal length does an isosceles triangle have?

Answer: _____

ANGLE

15. What is the acute angle whose sine equals 0.5?

Answer: _____

INTEGER

16. What is the opposite of the number 0?

Answer: _____

INTEGER

17. What is the average of the numbers 5 and 7?

Answer: _____

YES/NO

18. Is the hectare an SI unit?

☐ No ☐ Yes

YES/NO

19. Is 28 a perfect number?

☐ No ☐ Yes

INTEGER

20. What is the cosine of 90 degrees?

Answer: _____

Answers

MATHEMATICS

1. **Yes**
   A perfect number is a natural number equal to the sum of all its divisors smaller than itself. 1+2+3=6.
2. **5**
3. **12**
4. **Pascaline**
   It was the second mechanical calculator in history, after Wilhelm Schickard's design. Pascal was about 19 when he began the project.
5. **4**
6. **90**
   Complementary angles are two acute angles sharing a vertex and a side, whose sum equals a right angle (90 degrees).
7. **3**
8. **4**
9. **28**
   The set contains every combination of numbers from 0 to 6. Tiles with the same number on both ends are doubles.
10. **No**
    Pi (π) is irrational, which means it cannot be written as a fraction of two integers.
11. **52**
    A year has 365 days, which is 52 weeks and one day (two days in a leap year).
12. **360**
13. **No**
    In mathematics, there is no number that is larger than all other numbers. You can always get a larger number by adding to a given number.
14. **2**
15. **30°**
    Sin 30° = 0.5.
16. **0**
    Opposite numbers are two numbers whose sum is zero.
17. **6**
18. **No**
19. **Yes**
    Its divisors are 1, 2, 4, 7 and 14. Adding them up gives 28. That is why 28 is a perfect number.
20. **0**

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