

Number Properties: Medium Practice Paper 8

Q1. Which test shows that a whole number is divisible by 6?

- A. It is even and its digits add to a multiple of 3
- B. It is even and it ends in 6
- C. Its digits add up to 6
- D. It is divisible by 2 and by 4
- E. It ends in 0 or in 6

Q2. What is the smallest number that 4, 5 and 6 all divide into exactly?

- A. 20
- B. 30
- C. 60
- D. 90
- E. 120

Q3. Four pupils were asked how many factors 30 has. The table shows their answers. Who is correct?

Pupil	Answer
Ann	6
Ben	8
Cal	7
Dee	4

- A. Ann
- B. Ben
- C. Cal
- D. Dee
- E. None of them

Q4. Apart from 1, what is the smallest number that is both a square number and a cube number?

- A. 8
- B. 16
- C. 27
- D. 36
- E. 64

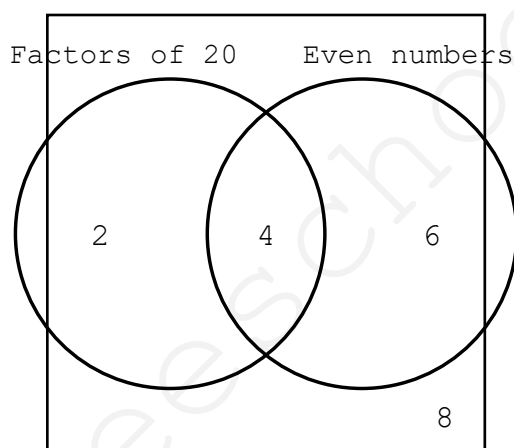
Q5. How many prime numbers are there between 40 and 60?

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

Q6. A number between 80 and 100 is an odd multiple of 7. What is the number?

- A. 84 B. 87 C. 91 D. 95 E. 98

Q7. The Venn diagram sorts the numbers from 1 to 20. How many of them are inside at least one of the circles?



- A. 8 B. 10 C. 12 D. 14 E. 16

Q8. The product of two prime numbers is 91. What are the two primes?

- A. 7 and 13 B. 3 and 31 C. 5 and 19 D. 9 and 11 E. 13 and 17

Q9. What is 20 squared take away 15 squared?

- A. 25 B. 125 C. 175 D. 225 E. 275

Q10. The table sorts numbers by whether they are prime and whether they are even. Which of these numbers belongs in the cell marked ?

	Prime	Not prime
Even	2	?
Odd	7	9

A. 3 B. 4 C. 5 D. 11 E. 13

Q11. Which of these numbers is NOT a factor of 120?

A. 8 B. 12 C. 15 D. 16 E. 20

Q12. Two consecutive whole numbers add up to 45. What is the larger of the two?

A. 21 B. 22 C. 23 D. 24 E. 25

Q13. What is the sum of all the factors of 28?

A. 28 B. 42 C. 56 D. 84 E. 96

Q14. A number between 50 and 60 has exactly two factors, and its digits add up to 8. What is the number?

A. 51 B. 53 C. 55 D. 57 E. 59

Q15. There are fewer than 50 counters in a box. Shared among 6 children, 4 are left over. Shared among 5 children, 3 are left over. How many counters are there?

A. 22 B. 26 C. 28 D. 34 E. 38