Multiple choice questions - Factors, multiples, primes, squares and cubes

Year: Year 5 · 10

Question 1 Which number is a factor of 28?

- ◯ **A.** 7
- ◯ **B.** 8
- ◯ **C.** 9
- ◯ **D.** 12

Question 2 Which number is a multiple of 9?

- ◯ **A.** 56
- ◯ **B.** 63
- ◯ **C.** 19
- ◯ **D.** 91

Question 3 Which number is prime?

- ◯ **A.** 39
- ◯ **B.** 51
- ◯ **C.** 37
- ◯ **D.** 33

Question 4 What is 6 squared?

- ◯ **A.** 12
- ◯ **B.** 18
- ◯ **C.** 216
- ◯ **D.** 36

Question 5 What is 3 cubed?

- ◯ **A.** 27
- ◯ **B.** 9
- ◯ **C.** 6
- ◯ **D.** 33

Question 6 Which number is NOT prime?

- ◯ **A.** 2
- ◯ **B.** 1
- ◯ **C.** 5

◯ **D.** 11

Question 7 What are the common factors of 8 and 12?

◯ **A.** 1, 2 and 3
◯ **B.** 2, 4 and 6
◯ **C.** 1, 2 and 4
◯ **D.** 4 and 24

Question 8 Which number is both a square and a cube?

◯ **A.** 16
◯ **B.** 27
◯ **C.** 36
◯ **D.** 64

Question 9 What are the prime factors of 20?

◯ **A.** 2 and 5
◯ **B.** 2, 4 and 5
◯ **C.** 4 and 5
◯ **D.** 1, 2 and 5

Question 10 What is the first common multiple of 3 and 4?

◯ **A.** 1
◯ **B.** 12
◯ **C.** 7
◯ **D.** 24

Answer grid - Factors, multiples, primes, squares and cubes

Year: Year 5

Question	Answer	Explanation
1	**A**	28 ÷ 7 = 4 exactly.
2	**B**	9 × 7 = 63.
3	**C**	37 has only the factors 1 and 37.
4	**D**	6 × 6 = 36.
5	**A**	3 × 3 × 3 = 27.
6	**B**	1 has only one factor.
7	**C**	Factors of 8: 1, 2, 4, 8. Factors of 12: 1, 2, 3, 4, 6, 12.
8	**D**	64 = 8 squared and also 4 cubed.
9	**A**	20 = 2 × 2 × 5.
10	**B**	3, 6, 9, 12 and 4, 8, 12.