Animal Jumps

Standard difficulty · 20 questions · 40 marks · Time: 54 minutes

Name: _____ Date: _____ Score: ____ / 40

Show your working for Sections B and C. Answers are on the last page — try every question first!

Section A — Choose the correct answer — 8 × 1 = 8 marks

1. Which of these is a factor of 22?
(a) 16 **(b)** 12 **(c)** 14 **(d)** 11

2. Which of these is a multiple of 12?
(a) 135 **(b)** 129 **(c)** 119 **(d)** 132

3. Which number is a common factor of 60 and 14?
(a) 10 **(b)** 3 **(c)** 2 **(d)** 13

4. A deer jumps 6 steps at a time and a cricket jumps 7 steps at a time, both starting at 0. On which number do they first land together?
(a) 13 **(b)** 48 **(c)** 42 **(d)** 84

5. A number that divides another exactly is its:
(a) quotient only **(b)** multiple **(c)** remainder **(d)** factor

6. Which of these numbers can be divided exactly only by 1 and itself?
(a) 29 **(b)** 32 **(c)** 22 **(d)** 51

7. Which number can be divided exactly by 10?
(a) 20 **(b)** 44 **(c)** 164 **(d)** 682

8. A squirrel starts at 0 and jumps 5 steps each time. Will it land on 45?
(a) Yes **(b)** Only on the way back
(c) No **(d)** Only if it jumps twice as far

Section B — Short answer — 8 × 2 = 16 marks

9. List all the factors of 63.

10. Write the first five multiples of 17.

11. List the common factors of 43 and 50.

12. Write the first three common multiples of 2 and 7.

13. How many factors does 32 have?

14. In a village, the market opens every 9 days and the fair comes every 11 days. Both happened today. After how many days will both happen on the same day again?

15. A cricket jumps 10 steps at a time from 0. How many jumps does it take to reach 70?

16. Which of 30, 45, 63, 85, 80, 55 can be divided exactly by 10?

Section C — Word problems — 4 × 4 = 16 marks

17. On a number track from 0 to 40, a frog jumps 3 steps at a time and a kangaroo jumps 4 at a time, both from 0. (a) Write the first five numbers the frog lands on. (b) Write the first five for the kangaroo. (c) Which numbers up to 40 do both land on?

18. 60 plants are to be put in equal rows with none left over. (a) List all the ways (how many rows, how many in each row). (b) Can they be put in rows of 7? (c) What is the largest number of rows, other than 60 rows of 1?

19. Two lights blink together at the start. One blinks every 4 seconds and the other every 6 seconds. (a) When do they next blink together? (b) Write all the times up to 120 seconds when they blink together. (c) How many times does the first light blink in 1 minute?

20. True or false? (a) 7 is a factor of 28. (b) 28 is a multiple of 7. (c) 3 is a common factor of 27 and 30. (d) 29 is a multiple of 7.

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Answer key

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Q	Answer	Working
1	**(d) 11**	22 ÷ 11 = 2 exactly
2	**(d) 132**	12 × 11 = 132
3	**(c) 2**	60 ÷ 2 = 30; 14 ÷ 2 = 7
4	**(c) 42**	multiples of 6 and 7: the first one in both lists
5	**(d) factor**	—
6	**(a) 29**	29 can be divided exactly only by 1 and 29
7	**(a) 20**	it ends in 0
8	**(a) Yes**	45 ÷ 5 = 9 exactly
9	**1, 3, 7, 9, 21, 63**	find the pairs that multiply to make it
10	**17, 34, 51, 68, 85**	—
11	**1**	factors of 43: 1, 43; of 50: 1, 2, 5, 10, 25, 50
12	**14, 28, 42**	14 is the first number in both tables
13	**6**	1, 2, 4, 8, 16, 32
14	**99 days**	the first common multiple of 9 and 11
15	**7**	70 ÷ 10
16	**30, 80**	ending in 0
17	**(a) 3, 6, 9, 12, 15; (b) 4, 8, 12, 16, 20; (c) 12, 24, 36**	common multiples of 3 and 4
18	**(a) 1 × 60, 2 × 30, 3 × 20, 4 × 15, 5 × 12, 6 × 10, 10 × 6, 12 × 5, 15 × 4, 20 × 3, 30 × 2, 60 × 1; (b) No; (c) 30**	the factors of 60
19	**(a) after 12 seconds; (b) 12, 24, 36, 48, 60, 72, 84, 96, 108, 120 seconds; (c) 15**	12, 24, 36…
20	**(a) True; (b) True; (c) True; (d) False**	28 = 7 × 4

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