# Logic Practice Worksheet - Answer Key

**For Ages 8-10**

1. Complete the pattern:



**Answer:** [DIAMOND]

*Explanation:* The pattern repeats [CIRCLE] - [RECTANGLE] - [HEART] - [DIAMOND], so the next item is: [DIAMOND]

2. Complete the pattern:



**Answer:** 10

*Explanation:* Each number is the sum of the previous numbers, so the next number is: 10

3. If it takes 3 minutes to boil one egg, how long does it take to boil 3 eggs in the same pot?

**Answer:** 3 minutes

*Explanation:* Answer: 3 minutes

4. Complete the pattern:



**Answer:** 54

*Explanation:* The pattern multiplies by 3, so the next number is: 54

5. Which one doesn't belong with prime_numbers? 17, 9, 7, 11

**Answer:** 9

*Explanation:* 9 doesn't belong with prime_numbers

6. Complete the pattern:



**Answer:** 11

*Explanation:* Each number is the sum of the previous numbers, so the next number is: 11

7. If all birds can fly, and a robin is a bird, can a robin fly?

**Answer:** yes

*Explanation:* Answer: yes

8. A school starts at 8:30 AM. Students need 15 minutes to get from the bus to class. The bus ride takes 25 minutes. What's the latest the bus can leave home?

**Answer:** 7:50 AM

*Explanation:* Answer: 7:50 AM

9. Which one doesn't belong with multiples_of_3? 3, 6, 12, 11

**Answer:** 11

*Explanation:* 11 doesn't belong with multiples_of_3

10. A farmer has 15 sheep. All but 9 run away. How many sheep are left?

**Answer:** 9

*Explanation:* Answer: 9

11. If it's true that 'All roses are flowers' and 'Some flowers are red', can we conclude that 'Some roses are red'?

**Answer:** no

*Explanation:* Answer: no

12. Which one doesn't belong with geometric_shapes? square, rectangle, loud, pentagon

**Answer:** loud

*Explanation:* loud doesn't belong with geometric_shapes

13. A train leaves at 2:00 PM and takes 45 minutes to reach its destination. What time does it arrive?

**Answer:** 2:45 PM

*Explanation:* Answer: 2:45 PM

14. Complete the pattern:

(8)   (32)   (128)   - ____

**Answer:** 512

*Explanation:* The pattern multiplies by 4, so the next number is: 512

15. Complete the pattern:

▲ ● ▲ ● ▲ - ____

**Answer:** [CIRCLE]

*Explanation:* The pattern alternates between forest triangle and navy circle, so the next item is: [CIRCLE]

16. If some students are athletes and all athletes are hardworking, what can we say about some students?

**Answer:** they are hardworking

*Explanation:* Answer: they are hardworking

17. Complete the pattern:

(1)   (8)   (15)   (22)   - ____

**Answer:** 29

*Explanation:* The pattern skips by 7, so the next number is: 29

18. In a race, Alex finished before Ben but after Carlos. Diana finished after Alex but before Ben. What is the order from first to last?

   **Answer:** Carlos, Alex, Diana, Ben

*Explanation:* Answer: Carlos, Alex, Diana, Ben

19. Complete the pattern:

$$\text{(10)} \quad \text{(40)} \quad \text{(160)} \quad - \underline{\quad}$$

   **Answer:** 640

*Explanation:* The pattern multiplies by 4, so the next number is: 640

20. Which one doesn't belong with fractions_equal_to_half? 1/2, 5/10, 2/4, 2/3

   **Answer:** 2/3

*Explanation:* 2/3 doesn't belong with fractions_equal_to_half

21. Complete the pattern:

$$\text{(2)} \quad \text{(4)} \quad \text{(8)} \quad - \underline{\quad}$$

   **Answer:** 16

*Explanation:* The pattern multiplies by 2, so the next number is: 16

22. If the pattern is: Monday-1, Tuesday-2, Wednesday-3, what number comes with Friday?

   **Answer:** 5

*Explanation:* Answer: 5

23. Which one doesn't belong with fractions_equal_to_half? 4/8, 2/5, 2/4, 5/10

   **Answer:** 2/5

*Explanation:* 2/5 doesn't belong with fractions_equal_to_half

24. Three friends share 24 stickers equally. Then each friend gives away 2 stickers. How many stickers does each friend have now?

**Answer:** 6

*Explanation:* Answer: 6

25. Which one doesn't belong with fractions_equal_to_half? 1/4, 1/2, 2/4, 5/10

**Answer:** 1/4

*Explanation:* 1/4 doesn't belong with fractions_equal_to_half

26. Sarah has more books than Tom. Tom has more books than Lisa. Lisa has 5 books. Tom has 8 books. How many books might Sarah have?

**Answer:** more than 8

*Explanation:* Answer: more than 8

27. Complete the pattern:



**Answer:** 128

*Explanation:* The pattern multiplies by 4, so the next number is: 128

28. Emma saves $2 every week. After 6 weeks, she buys a book for $8. How much money does she have left?

**Answer:** $4

*Explanation:* Answer: $4

29. Which one doesn't belong with living_things? tree, bird, flower, computer

**Answer:** computer

*Explanation:* computer doesn't belong with living_things

30. Which one doesn't belong with planets? comet, Earth, Jupiter, Mercury

**Answer:** comet

*Explanation:* comet doesn't belong with planets