

Logic Practice Worksheet - Answer Key

For Ages 8-10

1. What is 8×7 ?

Answer: 56

Explanation: Answer: 56

2. 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

3. Complete the pattern:



Answer: 33

Explanation: The pattern skips by 6, so the next number is: 33

4. Complete the pattern:



Answer: [SQUARE]

Explanation: The pattern alternates between navy triangle and crimson square, so the next item is: [SQUARE]

5. Complete the pattern:

$$\textcircled{3} \quad \textcircled{12} \quad \textcircled{48} \quad - \quad \underline{\hspace{1cm}}$$

Answer: 192

Explanation: The pattern multiplies by 4, so the next number is: 192

6. Which one doesn't belong with geometric_shapes? triangle, loud, square, pentagon

Answer: loud

Explanation: loud doesn't belong with geometric_shapes

7. Which one doesn't belong with living_things? car, cat, flower, tree

Answer: car

Explanation: car doesn't belong with living_things

8. Which one doesn't belong with prime_numbers? 2, 5, 9, 13

Answer: 9

Explanation: 9 doesn't belong with prime_numbers

9. 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

10. 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

11. Complete the pattern:

$$\textcircled{2} \quad \textcircled{5} \quad \textcircled{7} \quad - \quad \underline{\hspace{1cm}}$$

Answer: 12

Explanation: Each number is the sum of the previous numbers, so the next number is: 12

12. 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

13. 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

14. 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

15. 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

16. Complete the pattern:

$\textcircled{10}$ $\textcircled{40}$ $\textcircled{160}$ - _____

Answer: 640

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

17. Which one doesn't belong with fractions_equal_to_half? $\frac{1}{4}$, $\frac{3}{6}$, $\frac{2}{4}$, $\frac{1}{2}$

Answer: $\frac{1}{4}$

Explanation: $\frac{1}{4}$ doesn't belong with fractions_equal_to_half

18. Which one doesn't belong with renewable_energy? oil, solar, water, biomass

Answer: oil

Explanation: oil doesn't belong with renewable_energy

19. If a movie starts at 7:30 PM and lasts 2 hours, when does it end?

Answer: 9:30 PM

Explanation: Answer: 9:30 PM

20. Complete the pattern:

(6) (15) (24) (33) - ____

Answer: 42

Explanation: The pattern skips by 9, so the next number is: 42

21. Which one doesn't belong with planets? Earth, Mercury, comet, Saturn

Answer: comet

Explanation: comet doesn't belong with planets

22. Complete the pattern:



Answer: [CIRCLE]

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

23. Complete the pattern:

(7) (28) (112) - ____

Answer: 448

Explanation: The pattern multiplies by 4, so the next number is: 448

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

Answer: yes

Explanation: Answer: yes

25. 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

26. Which one doesn't belong with multiples_of_3? 15, 3, 9, 2

Answer: 2

Explanation: 2 doesn't belong with multiples_of_3

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

Answer: 5

Explanation: Answer: 5

28. Complete the pattern:



Answer: [TRIANGLE]

Explanation: The pattern alternates between navy circle and crimson triangle, so the next item is: [TRIANGLE]

29. Complete the pattern:



Answer: [TRIANGLE]

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

30. Complete the pattern:

(9) (18) (36) - ____

Answer: 72

Explanation: The pattern multiplies by 2, so the next number is: 72

31. Complete the pattern:

(3) (2) (5) - ____

Answer: 7

Explanation: Each number is the sum of the previous numbers, so the next number is: 7

32. Every morning, Jake walks to school. Today is Monday morning. What will Jake do?

Answer: walk to school

Explanation: Answer: walk to school

33. Complete the pattern:



Answer: [SQUARE]

Explanation: The pattern repeats [RECTANGLE] - [OVAL] - [DIAMOND] - [SQUARE], so the next item is: [SQUARE]

34. Complete the pattern:

(8) (32) (128) - ____

Answer: 512

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

35. If it's sunny, we might need ____

Answer: sunglasses

Explanation: Answer: sunglasses

36. 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

37. Which one doesn't belong with parts_of_speech? letter, noun, pronoun, adjective

Answer: letter

Explanation: letter doesn't belong with parts_of_speech

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

Answer: 9

Explanation: Answer: 9

39. Which one doesn't belong with fractions_equal_to_half? $\frac{3}{6}$, $\frac{2}{4}$, $\frac{2}{3}$, $\frac{1}{2}$

Answer: $\frac{2}{3}$

Explanation: $\frac{2}{3}$ doesn't belong with fractions_equal_to_half

40. Which one doesn't belong with continents? South America, Australia, Brazil, North America

Answer: Brazil

Explanation: Brazil doesn't belong with continents