Task card 1 Binary Numbers (Base 2)

Write the binary number 111 as a decimal number.

Task card 2 Binary Numbers (Base 2)

Write 13 as a binary number.

Task card 3 Binary Numbers (Base 2)

Write the binary number 1100 as a decimal number.

Task card 4 Binary Numbers (Base 2)

In a binary number, what is the place value of the 4th digit from the right?

Task card 5 Binary Numbers (Base 2)

How many digits does 23 have when it is written in binary?

Task card 6 Binary Numbers (Base 2)

Which binary number comes right after 11010?

Task card 7 Binary Numbers (Base 2)

Compare: binary 10001 ___ 17. Write <, > or =.

Task card 8 Binary Numbers (Base 2)

Ava says the binary number 11101 is 23. What is it really, as a decimal number?

Task card 9 Binary Numbers (Base 2)

A row of 5 light bulbs shows a number in binary: on means 1 and off means 0. From left to right the bulbs are on, off, off, off, off. What number do they show?

Task card 10 Binary Numbers (Base 2)

Double the binary number 1001. Write the answer in binary.

Task card 11 Binary Numbers (Base 2)

Write the binary number 100001 as a decimal number.

Task card 12 Binary Numbers (Base 2)

Write 41 as a binary number.

Task card 13 Binary Numbers (Base 2)

Write the binary number 11110 as a decimal number.

Task card 14 Binary Numbers (Base 2)

In a binary number, what is the place value of the 2nd digit from the right?

Task card 15 Binary Numbers (Base 2)

How many digits does 8 have when it is written in binary?

Task card 16 Binary Numbers (Base 2)

Which binary number comes right after 101?

Task card 17 Binary Numbers (Base 2)

Compare: binary 11101 ___ 32. Write <, > or =.

Task card 18 Binary Numbers (Base 2)

Zoe says the binary number 101011 is 53. What is it really, as a decimal number?

Task card 19 Binary Numbers (Base 2)

A row of 5 light bulbs shows a number in binary: on means 1 and off means 0. From left to right the bulbs are on, off, on, on, off. What number do they show?

Task card 20 Binary Numbers (Base 2)

Double the binary number 11010. Write the answer in binary.

Task card 21 Binary Numbers (Base 2)

Write the binary number 100010 as a decimal number.

Task card 22 Binary Numbers (Base 2)

Write 9 as a binary number.

Task card 23 Binary Numbers (Base 2)

Write the binary number 11 as a decimal number.

Task card 24 Binary Numbers (Base 2)

In a binary number, what is the place value of the 6th digit from the right?

Binary Numbers (Base 2) Task Cards

Recording sheet · Grade 6 · Answer each question. Binary answers use only the digits 0 and 1.

Name: _____ Date: _____

Scan to check your answers

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Binary Numbers (Base 2) Task Cards: Answer Key

Grade 6 · Medium

The answers online

1. 7	**2.** 1101	**3.** 12
4. 8	**5.** 5	**6.** 11011
7. =	**8.** 29	**9.** 16
10. 10010	**11.** 33	**12.** 101001
13. 30	**14.** 2	**15.** 4
16. 110	**17.** <	**18.** 43
19. 22	**20.** 110100	**21.** 34
22. 1001	**23.** 3	**24.** 32