Task card 1 Binary Numbers (Base 2)

Write the binary number 1110000 as a decimal number.

Task card 2 Binary Numbers (Base 2)

Write 208 as a binary number.

Task card 3 Binary Numbers (Base 2)

Write the binary number 1100010 as a decimal number.

Task card 4 Binary Numbers (Base 2)

In a binary number, what is the place value of the 3rd digit from the right?

Task card 5 Binary Numbers (Base 2)

How many digits does 196 have when it is written in binary?

Task card 6 Binary Numbers (Base 2)

Which binary number comes right after 11010011?

Task card 7 Binary Numbers (Base 2)

Compare: binary 11101001 ___ 232. Write <, > or =.

Task card 8 Binary Numbers (Base 2)

Sam says the binary number 11010011 is 203. What is it really, as a decimal number?

Task card 9 Binary Numbers (Base 2)

A row of 8 light bulbs shows a number in binary: on means 1 and off means 0. From left to right the bulbs are on, on, off, on, off, off, off, on. What number do they show?

Task card 10 Binary Numbers (Base 2)

Double the binary number 1101. Write the answer in binary.

Task card 11 Binary Numbers (Base 2)

Write the binary number 11001010 as a decimal number.

Task card 12 Binary Numbers (Base 2)

Write 230 as a binary number.

Task card 13 Binary Numbers (Base 2)

Write the binary number 1011101 as a decimal number.

Task card 14 Binary Numbers (Base 2)

In a binary number, what is the place value of the 7th digit from the right?

Task card 15 Binary Numbers (Base 2)

How many digits does 245 have when it is written in binary?

Task card 16 Binary Numbers (Base 2)

Which binary number comes right after 10110000?

Task card 17 Binary Numbers (Base 2)

Compare: binary 1101000 ___ 104. Write <, > or =.

Task card 18 Binary Numbers (Base 2)

Noah says the binary number 1011001 is 77. What is it really, as a decimal number?

Task card 19 Binary Numbers (Base 2)

A row of 8 light bulbs shows a number in binary: on means 1 and off means 0. From left to right the bulbs are on, on, on, on, on, on, off, off. What number do they show?

Task card 20 Binary Numbers (Base 2)

Double the binary number 11011. Write the answer in binary.

Task card 21 Binary Numbers (Base 2)

Write 107 as a binary number.

Task card 22 Binary Numbers (Base 2)

Write the binary number 101101 as a decimal number.

Task card 23 Binary Numbers (Base 2)

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

Task card 24 Binary Numbers (Base 2)

How many digits does 87 have when it is written in binary?

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 · Hard

The answers online

1. 112	**2.** 11010000	**3.** 98
4. 4	**5.** 8	**6.** 11010100
7. >	**8.** 211	**9.** 209
10. 11010	**11.** 202	**12.** 11100110
13. 93	**14.** 64	**15.** 8
16. 10110001	**17.** =	**18.** 89
19. 252	**20.** 110110	**21.** 1101011
22. 45	**23.** 2	**24.** 7