

Cell Division Worksheet: Chromosome Numbers

Name _____ Date _____ Class _____
 Complete the table below by filling in either the missing diploid number or haploid number:

| Diploid Number (2N) | Haploid Number (N) |
|---------------------|--------------------|
| 46 | |
| | 25 |
| 40 | |
| | 80 |
| 10 | |
| | 10 |
| 50 | |
| | 50 |
| 100 | |
| | 100 |
| 6 | |
| | 6 |
| 2 | |
| | 5 |
| 80 | |
| | 40 |

17. Place a check for each of the following cell types. Tell if it is diploid or haploid and what type of cell division produced it:

| Cell | Haploid ? | Diploid? | Made by mitosis or meiosis? |
|------------------|-----------|----------|-----------------------------|
| Skin cell | | | |
| Nerve cell | | | |
| Liver cell | | | |
| Sperm cell | | | |
| Bladder cell | | | |
| Egg cell | | | |
| Bone cell | | | |
| White blood cell | | | |
| Muscle cell | | | |

26. If a human sperm cell has 23 chromosomes, how many chromosomes will be in a human skin cell? _____

27-28. A human egg cell? _____ A human nerve cell? _____

29-30. A human cell made by mitosis will have _____ chromosomes? A human cell made by meiosis will have _____ chromosomes?

30-32. If a dog bladder cell has 100 chromosomes, how many will be in a dog skin cell? _____ A dog egg cell? _____ a dog liver cell? _____