Convert following to base 10

Make sure to show all your work.
No Calculator Allowed.

$5 \times 1 = 5$
$4 \times 8 = 32$
$3 \times 64 = 192$
$2 \times 512 = 1024$

```
 1 1
1024
 192
  32
   5
1253
```

1. 2345_8 _____ 1,253

2. 1101101_2 _____ 109
   64 32 8 4 1
   1+4+8+32+64=109

3. 10011_8 _____ 4105
   4096 8 1
   4105

4. $23A_{16}$ _____ 570
   512 48 10

5. 175_8 _____ 125
   64 56 5

6. FF_{16} _____ 255
   240 15

7. $A7_{16}$ _____ 167
   160 + 7 = 167

8. $F0D_{16}$ _____ 3853
   3840 + 13

9. 778_8 _____ 512
   448 + 56+8 = 512

10. 1165_8 _____ 629
    512 64 48 5 = 629

11. 3745_8 _____ 2021
    1536 448 32 5

12. 4512_8 _____ 2378
    2048 320 8 2

13. 512_8 _____ 330
    320 8 2

14. 234_{16} _____ 564
    512 48 4

15. 11101_2 _____ 29
    16 8 4 1

16. $1DE_{16}$ _____ 478
    256 208 14

17. 722_8 _____ 466
    448 16 2

18. 722_{16} _____ 1826
    1792 32 2

19. 101_{16} _____ 257
    256 1

20. 10101010_2 _____ 170
    128 32 8 2