Grade 5 Unit 1 worksheet: Numbers in other bases

Name _____ Date _____ Period _____

1. Write (a) to (c) in base ten. Write (d) to (f) in base five.

(a) 41_{five} (b) 203_{five} (c) 1102_{five} (d) 46 (e) 101

(f) 128

2. Write (a) to (c) in base ten. Write (d) to (f) in base two.

(a) 1001_{two} (b) 10011_{two} (c) 111000_{two} (d) 21 (e) 37

(f) 50

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3. Mateo's class packs crayons for a craft fair. They put 5 crayons in a box and 5 boxes in a case. They have 112 crayons.

(a) How many full cases, extra boxes and loose crayons do they get?

(b) Write 112 in base five.

4. Put these numbers in order from least to greatest.

43_{five} 11001_{two} 24

5. These numbers count up by one, all written in base five. Fill in the blanks.

33_{five}, 34_{five}, _____, 41_{five}, _____, _____, 44_{five}, _____

6. Each numeral below names the number thirty. One is in base two, one is in base five and one is in base ten. Which is which? Show how you know.

(a) 110 (b) 11110 (c) 30

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