Answer the questions

(1) An integer is divided by 4 and gives a remainder of 3. The resulting quotient is divided by 7 and gives a remainder of 2. The resulting quotient is then divided by 8 giving a quotient of 1 and a remainder of 6. Find the number?

(2) Find the value of the following :

A) 139 + (-41) + 9 + 79 + 82 + (-150) + 170 + (-72) + (-159)

B) 53 + (-64) + 95 + 73 + (-129) + (-147) + 92 + (-104) + (-183)

(3) Find the successor of each of the following integers:

A) -95 = ___ **B)** -82 = ___ **C)** -11 = ___

D) -56 = ___ **E)** -6 = ___ **F)** -71 = ___

(4) Find the sum of the following integers:

A) -13090 and -81164 **B)** -3918 and -28175 **C)** -66868 and -39740

D) -12068 and -46241 **E)** -64209 and -89079 **F)** -74554 and -3760

(5) Find the additive inverse of each of the following integers:

A) -92411 = _____ **B)** -86554 = _____ **C)** -10353 = _____

D) -97292 = _____ **E)** 0 = _____ **F)** -1188 = _____

(6) The product of two given numbers is 336. Both of them are divisible by 4 but neither of them is 4. Find the larger of the two numbers.

Choose correct answer(s) from the given choices

(7) The average of any four consecutive odd integers is always

a. a proper fraction **b.** odd

c. a decimal number **d.** even

(8) Choose the correct operator.
-5 _____ -5

a. = **b.** >

c. < **d.** None of these

Fill in the blanks

(9) Find the value of the following :

A) $(-1) \times 9 \times (-15) + (-12) \times 16 =$ _____

B) $2 \times 17 - (-4) \times (-2) =$ _____

(10) Find the value of the following :

A) $18 \times 7 \times (-6) \times 17 \times 13 =$ _____

B) $11 \times (-14) \times 20 =$ _____

(11) Simplify :

A) $\left(\frac{-2952}{-72}\right) - (-1) \times (-20) \times 18 + \left(\frac{4320}{-48}\right) =$ _____

B) $(-14) \times 18 - 8 \times 14 \times 17 =$ _____

Check True/False

(12) The sum of a negative integer and a positive integer is always a negative integer.

○ True ○ False

(13) $|a - b| = |a| - |b|$, where a and b are natural numbers and $a > b$.

○ True ○ False

(14) The smallest integer is not zero.

○ True ○ False

(15) Every negative number is greater than every natural number.

○ True ○ False