

Exercise 3F

Q1

Answer:

(b) 0

The smallest whole number is 0.

Q2

Answer:

(d) 1008

(a)
$$\begin{array}{r}
113 \\
9 \\
\hline{1018} \\
-9 \\
\hline{11} \\
-9 \\
\hline{28} \\
-27 \\
\hline{1}
\end{array}$$

Hence, 1018 is not exactly divisible by 9.

Hence, 1026 is exactly divisible by 9.

(C)

Hence, 1009 is not exactly divisible by 9.

$$\begin{array}{c}
(d) \\
112 \\
9 \\
1008 \\
-9 \\
10 \\
-9 \\
18 \\
-18 \\
0
\end{array}$$

Hence, 1008 is exactly divisible by 9.

(b) and (d) are exactly divisible by 9, but (d) is the least number which is exactly divisible by 9.

Hence, 999982 is not exactly divisible by 16.

(c)
62499
16)
999984
- 96
39
- 32
79
- 64
158
- 144
- 144
- 144
0

Hence, 999984 is exactly divisible by 16.

The largest six-digit number which is exactly divisible by 16 is 999984.

********* END *******