

1.4 2, 3, 4, 5, 7, 8, 11, 12, 38, 39, 40, 41

$$m = qn + r$$

$$2. \quad 64 = 9 \cdot 37 + r \quad q=1 \quad r=27$$

$$3. \quad 3 = 9 \cdot 22 + r \quad q=0 \quad r=3$$

$$4. \quad 48 = 9 \cdot 12 + r \quad q=4 \quad r=0$$

$$5. \quad a) \ 828 \quad b) \ 1666 \quad c) \ 1781 \quad d) \ 1125 \quad E) \ 107$$

$$\begin{array}{r} 11 \\ 6 \overline{) 138} \\ 32 \overline{) 623} \\ 32 \overline{) 22} \end{array}$$

$$2^2 \cdot 3^2 \cdot 23$$

$$\begin{array}{r} 11 \\ 2 \overline{) 533} \\ 7 \overline{) 119} \\ 7 \overline{) 17} \end{array}$$

$$2 \cdot 7^2 \cdot 17$$

$$\begin{array}{r} 11 \\ 13 \overline{) 137} \end{array}$$

$$13 \cdot 137$$

$$\begin{array}{r} 11 \\ 3 \overline{) 375} \\ 3 \overline{) 126} \\ 5 \overline{) 25} \end{array}$$

$$3^2 \cdot 5^3$$

$$107$$

$$d = sa + tb$$

$$7. \quad d = 3 \cdot 46 - 4 \cdot 33 \quad d=3 \quad s=3 \quad t=-4$$

$$8. \quad d = 34 \quad 58 \quad d=2 \quad t=3 \quad 174$$

$$11. \quad 160, 70 \quad \text{LCM} = 1060$$

$$12. \quad 176, 245 \quad \text{LCM} = 1226$$

$$38. \quad 1689/3 = 563$$

$$39. \quad 1689/3 = 563 + 1689/5 = 337 = 900$$

$$40.$$

$$41.$$