

SI Yellow Homework I

① First 5 multiples of 7 are:

7, 14, 21, 28, 35

② (72)

1	72
2	36
3	24
4	18
6	12
8	9

Factors of 72 are 1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, 72

③ Multiples of 8 are: 8, 16, 24, 32, 40, ...

Multiples of 5 are: 5, 10, 15, 20, 25, 30, 35, 40, ...

LCM of 8 and 5 is 40

④ (16) (20)

1	16	1	20
2	8	2	10
4	(4)	(4)	5

HCF of 16 and 20 is 4

⑤ First 5 prime numbers are:

2, 3, 5, 7, 11

⑥ First 5 square numbers are:

1, 4, 9, 16, 25

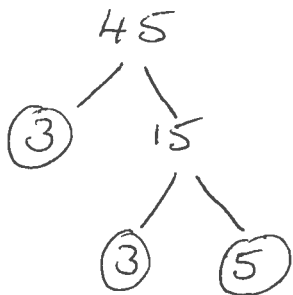
7) First 5 cubic numbers are :

1, 8, 27, 64, 125

8) First 5 triangular numbers are :

1, 3, 6, 10, 15

9)



The prime factors of 45 are 3 and 5

10) a) $30,042,050 - 2,670,084$

$$\begin{array}{r} 2 \quad 9 \quad 9 \quad 1 \quad 9 \quad 4 \quad 0 \\ 30,042,050 \\ - 2,670,084 \\ \hline \hline 27,371,966 \end{array}$$

$$\begin{array}{l} \text{b) } 340 \times 6000 \\ = 204 \times 10000 \\ = \underline{\underline{2,040,000}} \end{array} \quad \Rightarrow \quad \begin{array}{r} 34 \\ \times 6 \\ \hline 204 \end{array}$$

$$\begin{array}{l} \text{c) } 2680 \div 4000 \\ = 268 \div 400 \\ = 2.68 \div 4 \quad \Rightarrow \quad \frac{0.67}{4 \overline{) 2.68}} \\ = 0.67 \end{array}$$

$$\begin{array}{l} \text{d) } 76 \times 38 \\ = \underline{\underline{2,888}} \end{array} \quad \Rightarrow \quad \begin{array}{r} 76 \\ \times 38 \\ \hline 608 \\ + 2280 \\ \hline \underline{\underline{2888}} \end{array}$$

$$\begin{array}{l} \text{e) } 465 \div 37 \\ = \underline{\underline{12 \text{ r } 11}} \end{array} \quad \begin{array}{r} 12 \text{ r } 11 \\ 37 \overline{) 465} \\ \underline{- 370} \quad 10 \\ 95 \\ \underline{- 74} \quad 2 \\ 11 \end{array}$$

$$f) \sqrt{810000}$$
$$= \underline{\underline{900}}$$

$$g) \sqrt[3]{27000}$$
$$= \underline{\underline{30}}$$

$$h) 2^4$$
$$= 2 \times 2 \times 2 \times 2$$
$$= \underline{\underline{16}}$$

$$i) 4 \times [(20 - 5 \times 2)^2 \div 50] - 2^3$$
$$= 4 \times [(20 - 10)^2 \div 50] - 2^3$$
$$= 4 \times [10^2 \div 50] - 2^3$$
$$= 4 \times [100 \div 50] - 8$$
$$= 4 \times 2 - 8$$
$$= 8 - 8$$
$$= \underline{\underline{0}}$$