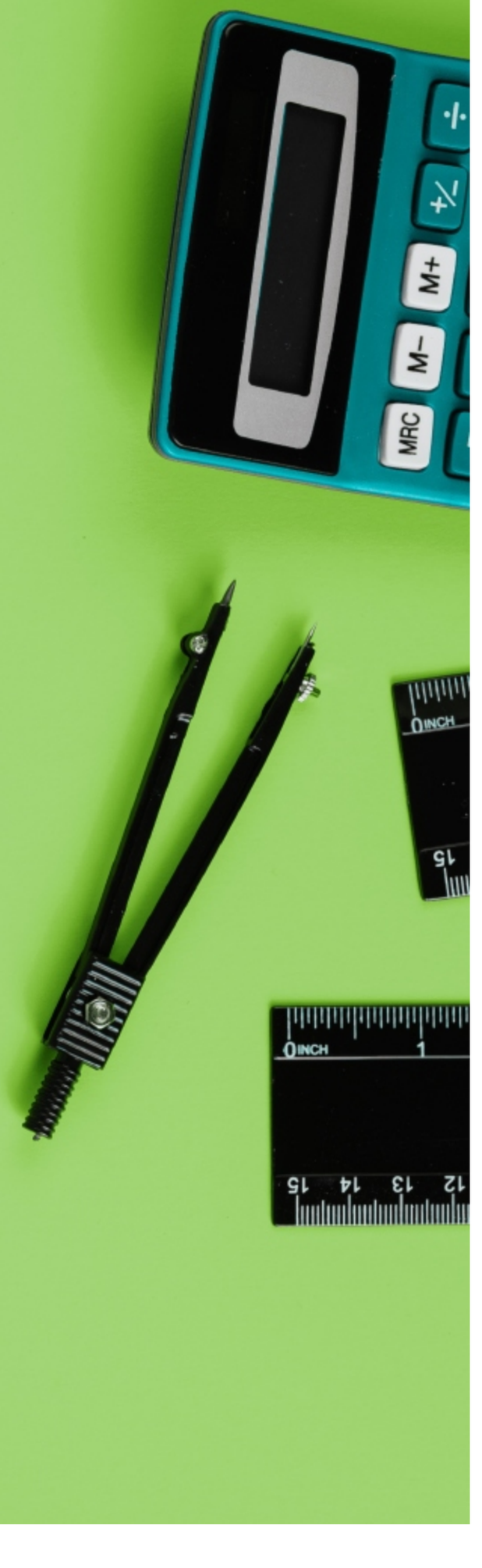
RD Sharma Solutions

Class 7

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Exercise 6.3

Q.1 Express the following numbers in the standard form

(i) 3908.78 (ii) 5,00,00,000 (iii) 3,18,65,00,000

(iv) 846×10^7 (v) 723×10^9

Solution: (i) $3908.78 = 3.90878 \times 10^3$

(ii) $5,00,00,000 = 5 \times 10^7$

(iii) $3,18,65,00,000 = 3.1865 \times 10^9$

(iv) $846 \times 10^7 = 8.46 \times 10^2 \times 10^7$

$= 8.46 \times 10^{2+7} = 8.46 \times 10^9$

(v) $723 \times 10^9 = 7.23 \times 10^2 \times 10^9$

$= 7.23 \times 10^{2+9} = 7.23 \times 10^{11}$

Q.2 Write the following numbers in the usual form

(i) 4.83×10^7 (ii) 3.21×10^5 (iii) 3.5×10^3

Solution (i) $4.83 \times 10^7 = 48300000$

(ii) $3.21 \times 10^5 = 321000$

(iii) $3.5 \times 10^3 = 3500$

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Q.3 Express the numbers appearing in the following statements in the standard form:

(i) The distance between the earth and the moon is 384,000,000 metres.

(ii) Diameter of earth is 1,27,56,000 metres.

(iii) Diameter of the Sun is 1,400,000,000 metres.

(iv) The universe is estimated to be about 12,000,000,000 years old.

Solution: (i) 3.84×10^8 m

(ii) 1.2756×10^7 m

(iii) 1.4×10^9 m

(iv) 1.2×10^{10} years old.

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