

Cubes and Cube Roots

Ex - 4(A)

1. i) $7^3 = 343$
ii) $11^3 = 1331$
iii) $16^3 = 4096$
iv) $23^3 = 12167$
v) $31^3 = 29791$
vi) $42^3 = 74088$
vii) $54^3 = 157464$

2. (iii) and (iv)

3. i) $2.1 = 9.261$
ii) $0.4 = 0.064$
iii) $1.6 = 4.096$
iv) $2.5 = 15.625$
v) $0.12 = 0.001728$
vi) $0.02 = 0.000004$

4. i) $\left(\frac{3}{7}\right)^3 = \frac{27}{343}$
ii) $\left(\frac{8}{9}\right)^3 = \frac{512}{729}$
iii) $\left(\frac{10}{13}\right)^3 = \frac{1000}{2197}$
iv) $\left(1\frac{2}{7}\right)^3 = \left(\frac{9}{7}\right)^3 = \frac{729}{343} = 2\frac{43}{343}$
v) $\left(2\frac{1}{2}\right)^3 = \left(\frac{5}{2}\right)^3 = \frac{125}{8} = 15\frac{5}{8}$

5.

i)
ii)
iii)
iv)
v)
vi)
vii)

$$-3 = -27$$

$$-7 = -343$$

$$-12 = -1728$$

$$-18 = -5832$$

$$-25 = -15625$$

$$-30 = -27000$$

$$-50 = -125000$$