

JB Academy, Faizabad
Mathematics Worksheet, Class 7th

In worksheet on profit and loss, we can see below there are 15 different types of questions which we can practice in our homework.

1. Find the profit or loss:

S. No.	Cost Price	Selling Price	Profit	Loss
(a)	\$ 5000	\$ 6000	\$ 1000	.....
(b)	\$ 12000	\$ 10000	.....	.....
(c)	\$ 1800	\$ 2400	.....	.....
(d)	\$ 5400	\$ 7200	.....	.....
(e)	\$ 9100	\$ 8000	.....	.....
(f)	\$ 6200	\$ 6000	.....	.....
(g)	\$ 3300	\$ 4000	.....	.....
(h)	\$ 1100	\$ 1900	.....	.....

2. Fill in the blanks:

S. No.	Cost Price	Selling Price	Profit	Loss
(a)	\$ 2400	.....	\$ 400	.....
(b)	\$ 1900	.....	.....	\$ 300
(c)	.....	\$ 2900	\$ 100	.....
(d)	.....	\$ 1590	.....	\$ 60
(e)	\$ 4100	.....	\$ 300	.....
(f)	\$ 1200	.....	.....	\$ 180
(g)	.....	\$ 1450	\$ 45	.....
(h)	.....	\$ 5900	.....	\$ 490

Q1) Value of -5 raised to the power of 4 is :

- (a) -625 (b) 25 (c) -125 (d) 625

Q2) $(-1)^{31}$ equals to :

- (a) 31 (b) -1 (c) 1 (d) -31

Q3) What power of -3 is 729?

- (a) 3 (b) 4 (c) 6 (d) 5

Q4) Value of $(-1)^{15} \times (-1)^{16}$ equals to;

- a) 1 (b) -1 (c) -240 (d) 240

Q5) If $2^4 + 3^2 = 5^x$ then x equals :

- a) 1 (b) 2 (c) 3 (d) 4

Q4) Use power notation to express each of the following:

(a) $(-2/3) \times (-2/3) \times (-2/3) \times (-2/3)$

(b) $m \times m \times m \times m \times m \times m$

(c) $5 \times 5 \times 5 \times 5 \times 5 \times 5$

$5 \times 5 \times 5 \times 5$

Q5) Express each of the following in exponential form:

- (a) 1024 (b) -100000 (c) 1331/343 (d) -1/125

Q6) Evaluate ; (a) $(3)^6 - (2)^5$ (b) $4^3 + 5^3$ (c) $8^3 \times 2^4$ (d) $3^7 \div 9^2$

(e) $\frac{3^5 \times 4^7}{6^3 \times 8}$ (f) $(5^3 \times 2^3) \div (5^2 \times 2)$ (g) $(3/2)^5 \times 16 \times (2/3)^4$

(h) $(1/3)^4 \times (-27/4)^2 \times (-8/3)^2$

(i) $[(1/4)^3]^2 \div [(1/4)^2]^3$ (j) $\frac{4^2 \times 4^3}{2^6}$ (k) $(-1/3)^2 \times (-1/3)^3 \times (-1/3)^0$

Q7) Which is greater : (a) 3^6 or 6^3 ? (b) $-(5^2)$ or $(-5)^2$?

Q8) Express each of the following as product of powers of prime factors:

- (a) 81 x 128 (b) 256 x 121

Q9) Find the value of x:

a) $\{(3)^3\}^7 = (3)^{7x}$

b) $(-2)^{11} \div (-2)^9 = (-2)^{2x}$

Q10) Using laws of exponents simplify: $(a^5 x b^3 x b^6) \div (a^2 b^2)$

Q11) Express the following in standard form: (i) 782000000 (ii) 609.99

(iii) 0.234×10^5 (iv) 5 million

Q12) Write in usual form: (i) 9.876×10^6 (ii) 1.3×10^9

Q13) Convert into positive power and then solve:

a) $(5/6)^{-2} \times (5/6)^{-4}$

b) In the above question we have converted negative into positive. How can you convert your negative approach or attitude into positive approach. Give examples.