



Worksheet
Ch- Integers

1. Write the multiples of 6 which are greater than 20 and less than 50.

2. Write all the prime numbers between the following:

(i) 31 and 50

(ii) 50 and 90

3. Write the factors of the following:

(i) 27

(ii) 32

(iii) 18

4. Find the first five multiples of 17.

5. Simplify

1) $21 \div (-7)$

2) $(-105) \times (-3)$

3) $(-91) \div 13$

4) $8 \times (-4)$

5) $(-9) + (-3) \times (-6)$

6) If $m = 17, n = 3, p = -2$, find the value of $(m \div n) \div p$.

8. Solve:

$$(i) x^3 + 6859 = 0$$

$$(iii) x^2 - 441 = 0$$

$$(ii) x^2 = 729$$

$$(iv) x^3 = 4096$$

9. Tick the correct answer.

1. Express $\frac{9}{81}$ and $-\frac{9}{81}$ as powers of a rational number.

a) $(\frac{3}{9})^2, (-\frac{3}{9})^2$
b) $(-\frac{3}{9})^2, (\frac{3}{9})^2$
c) $(\frac{9}{3})^2, (-\frac{9}{3})^2$
d) None of these

2. Express $\{(-\frac{5}{2})^{-2}\}^{-3}$ as a power of a rational number with negative exponent.

a) $(-\frac{5}{2})^2$
b) $(\frac{2}{5})^{-6}$
c) $(\frac{2}{5})^6$
d) $(\frac{2}{5})^{-6}$

3. Find the product of the cube of (-3) and square of (+5).

a) -675
b) -625
c) -235
d) 675

4. Express $3^{-2} \times 3^{-3}$ as a power of 3 positive exponent.

a) $\frac{1}{3^6}$
b) $\frac{1}{3^{-6}}$
c) $\frac{1}{-3^5}$
d) $\frac{1}{3^5}$

5. Solve $(\frac{1}{4})^{-2} \div (\frac{1}{4})^{-3}$.

a) 4
b) 4^{-6}
c) $\frac{1}{4}$
d) $(\frac{1}{4})^{-5}$

6. Simplify $\frac{(64 \times p^{-3})}{(8^{-3} \times 10 \times p^{-5})}$ here $p \neq 0$.

a) $(\frac{8^5}{10})p^2$
b) $(\frac{8}{10})p^2$
c) $(\frac{8^5}{10})p^{-8}$
d) None of these

7. Find the value of 'n', so that $(\frac{5}{7})^{-2} \times (\frac{5}{7})^{-14} = (\frac{5}{7})^{8n}$

a) -2
b) -14
c) 10
d) $\frac{3}{2}$

8. Find the value of n^{-3} if $n = (1000)^{1-4} \div (1000)^0$.

a) 1000^{-3}
b) 10^6
c) 1000^9
d) 10^{-9}