



Seventh Grade - Number System

1) Evaluate the following rational expressions give your answer in the least form

$$6\frac{1}{5} - \frac{5}{7} \times \frac{14}{25}$$

- $12/5$
- $23/4$
- $29/5$
- $33/4$

2) Evaluate the following rational expressions give your answer in the least form

$$2\frac{1}{3} \div 5\frac{1}{6}$$

- $14/31$
- $12/67$
- $32/34$
- $12/43$

3) Evaluate the following rational expressions give your answer in the least form

$$-\frac{2}{9} + \frac{3}{18} + 2\frac{1}{3}$$

- $34/23$
- $44/21$
- $41/18$
- $12/5$



4) Evaluate the following rational expressions give your answer in the least form

$$-7 \times (3 - 7) \div \frac{2}{3}$$

- 56
- 45
- 42
- 65

5) Evaluate the following rational expressions give your answer in the least form

$$2\frac{5}{12} \div \left(3\frac{1}{4} - 1\frac{3}{4}\right)$$

- 23/11
- 11/3
- 29/18
- 34/9

6) Evaluate the following rational expressions give your answer in the least form

$$\frac{5}{12} + \frac{5}{6} \div \sqrt{2\frac{7}{9}}$$

- 32/45
- 23/46
- 11/12
- 45/63

7) Evaluate the following rational expressions give your answer in the least form



$$-\left\{\left[2\frac{2}{3}+\left(-\frac{3}{4}\right)\right]\div\frac{3}{7}\times\left(1\frac{4}{5}-1\frac{2}{9}\right)\right\}$$

- -1908/945
- -4643/134
- -2093/810
- -3134/120

8) Evaluate the following rational expressions give your answer in the least form

$$\left[2\frac{2}{3}+\left(-\frac{1}{4}\right)\right]\div\left(\frac{3}{7}\right)\times\left(1\frac{4}{5}-1\frac{2}{9}\right)$$

- 1421/162
- 2342/443
- 1253/676
- 4533/454

9) Evaluate the following rational expressions give your answer in the least form

$$-\left\{\left[\frac{13}{20}-\left(-\frac{3}{4}\right)^2\right]\times\frac{3}{14}\div\left(-\frac{3}{15}\right)\right\}\times\left\{\left(-\frac{2}{13}\right)^2\times[99+(-24-36)]\right\}$$

- -127/1456
- -117/1382
- -547/4382
- -217/1234

10) Evaluate the following rational expressions give your answer in the least form



$$\begin{array}{r} -6 \\ \hline -4 + \frac{1}{-2 - (-3)} \end{array}$$

- 7
- 5
- 9
- 2

11) Write the following fractions in the simplest form. 15/21?

- 2/6
- 5/7
- 6/3
- 3/6

12) Write the following fractions in the simplest form. -9/63?

- -3/9
- -2/5
- -3/8
- -1/7

13) Write the following fractions in the simplest form. -45/72?

- -7/12
- -5/8
- -3/13
- -4/9

14) Write the following fractions in the simplest form. 95/133?



- $\frac{5}{7}$
- $\frac{2}{5}$
- $\frac{3}{5}$
- $\frac{5}{9}$

15) Write the following fractions in the simplest form. $\frac{34}{119}$?

- $\frac{3}{5}$
- $\frac{2}{7}$
- $\frac{5}{6}$
- $\frac{7}{5}$

16) Write the following fractions in the simplest form. $\frac{39}{52}$?

- $\frac{5}{6}$
- $\frac{3}{4}$
- $\frac{6}{3}$
- $\frac{7}{4}$

17) Write the following fractions in the simplest form. $\frac{91}{117}$?

- $\frac{3}{7}$
- $\frac{5}{6}$
- $\frac{7}{8}$
- $\frac{7}{9}$

18) Write the following fractions in the simplest form. $-\frac{46}{161}$?

- $-\frac{3}{11}$
- $-\frac{5}{13}$
- $-\frac{2}{9}$
- $-\frac{2}{7}$



19) Write the following fractions in the simplest form. $111/185$?

- $6/4$
- $3/5$
- $8/3$
- $8/5$

20) Write the following fractions in the simplest form. $-119/161$?

- $-19/32$
- $-17/23$
- $-27/31$
- $-13/25$

21) Write the following decimals as a rational number (in simplified form or mixed form) 0.0125 ?

- $4/56$
- $7/34$
- $8/45$
- $1/80$

22) Write the following decimals as a rational number (in simplified form or mixed form) 2.45 ?

- $45/21$
- $35/21$
- $49/20$
- $33/12$

23) Write the following decimals as a rational number (in simplified form or mixed form) 7.56 ?

- $111/21$
- $199/14$



- $213/23$
- $189/25$

24) Write the following decimals as a rational number (in simplified form or mixed form)

$1.\overline{3}$

- $2/3$
- $3/4$
- $5/4$
- $4/3$

25) Write the following decimals as a rational number (in simplified form or mixed form) -0.0015 ?

- $-5/4400$
- $-5/4540$
- $-6/6400$
- $-3/2000$

26) Write the following decimals as a rational number (in simplified form or mixed form)

$3.\overline{45}$

- $38/11$
- $45/13$
- $21/11$
- $34/13$

27) Write the following decimals as a rational number (in simplified form or mixed form)

$1.\overline{6}$

- $1/2$



- $\frac{2}{3}$
- $\frac{5}{3}$
- $\frac{4}{5}$

28) Write the following decimals as a rational number (in simplified form or mixed form)

$$1.\overline{253}$$

- $\frac{234}{453}$
- $\frac{453}{323}$
- $\frac{312}{422}$
- $\frac{106}{111}$

29) Write the following decimals as a rational number (in simplified form or mixed form) -5.032?

- $-\frac{2298}{190}$
- $-\frac{1258}{250}$
- $-\frac{2158}{234}$
- $-\frac{2188}{221}$

30) Write the following decimals as a rational number (in simplified form or mixed form)

$$-0.\overline{12}$$

- $-\frac{3}{41}$
- $-\frac{4}{33}$
- $-\frac{5}{45}$
- $-\frac{8}{55}$