



## Seventh Grade - Number System

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

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

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

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

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

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

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

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

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



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

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

- 65
- 42
- 45
- 56

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

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

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

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

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

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

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



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

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

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

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

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

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



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

- 2
- 9
- 5
- 7

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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



- 189/25
- 213/23

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

$1.\overline{3}$

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

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

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

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

$3.\overline{45}$

- $\frac{34}{13}$
- $\frac{21}{11}$
- $\frac{38}{11}$
- $\frac{45}{13}$

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

$1.\overline{6}$

- $\frac{5}{3}$



- $\frac{1}{2}$
- $\frac{4}{5}$
- $\frac{2}{3}$

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

$$1.\overline{253}$$

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

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

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

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

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

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