

Ma 9  
1.6

Rationals: Order of Operations WS

Answer questions on separate sheet. Write down question and show all work.

1.  $\frac{1}{6} + \frac{1}{4} \times \frac{2}{5}$

16.  $10 - 2\frac{1}{4} \div 9$

2.  $\left(\frac{1}{6} + \frac{1}{4}\right) \times \frac{2}{5}$

17.  $\left(10 - 2\frac{1}{4}\right) \div 9$

3.  $\frac{5}{4} - \left(\frac{2}{3} + \frac{1}{4}\right)$

18.  $12\frac{5}{8} - 5 \times 2$

4.  $\frac{1}{6} \cdot \frac{2}{5} + \frac{1}{4} \cdot \frac{2}{5}$

19.  $\frac{3}{5} \div \left(\frac{9}{10} - \frac{3}{4}\right)$

5.  $\frac{1}{6} \left(\frac{2}{5} + \frac{1}{4}\right) \frac{2}{5}$

20.  $\left(\frac{2}{3} + \frac{1}{3}\right) + \left(\frac{2}{3} - \frac{3}{4}\right)$

6.  $\frac{4}{5} + \frac{3}{10} \div \frac{3}{5}$

21.  $\left(\frac{1}{3} - \frac{1}{4}\right) \times \left(\frac{4}{5} + \frac{3}{4}\right)$

7.  $\left(\frac{4}{5} + \frac{3}{10}\right) \div \frac{3}{5}$

22.  $2 \left(2\frac{1}{2} + 3\frac{3}{4}\right) \div 2\frac{1}{2}$

8.  $\frac{1}{2} - \frac{3}{5} \times \frac{1}{6}$

23.  $\frac{3}{7} \left(2 + \frac{5}{8} \cdot 1\frac{3}{5}\right)$

9.  $\left(\frac{1}{2} - \frac{3}{5}\right) \times \frac{1}{6}$

24.  $\frac{3}{7} \left(\left(2 + \frac{5}{8}\right) 1\frac{3}{5}\right)$

10.  $\left(\frac{2}{3} + \frac{1}{4}\right) + 1\frac{1}{10}$

25.  $4\frac{2}{5} - \frac{15}{8} \times \frac{6}{25} + 2\frac{1}{10}$

11.  $\frac{2}{3} + \frac{1}{4} \div 1\frac{1}{10}$

26.  $1\frac{2}{3} \left(\frac{1}{2} - \frac{4}{5} \left(\frac{1}{3} + \frac{1}{4}\right)\right)$

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

27.  $\frac{3\frac{2}{5} + 1\frac{1}{2}}{3 - \frac{3}{5}}$

13.  $2\frac{3}{4} - \frac{1}{2} \times \frac{1}{4}$

28.  $\frac{3\frac{1}{2} + \frac{5}{4} \times \frac{2}{5}}{\left(3\frac{1}{2} + \frac{5}{4}\right) \times \frac{2}{5}}$

14.  $\left(2\frac{3}{4} - \frac{1}{2}\right) \times \frac{1}{4}$

15.  $3\frac{2}{3} + \frac{1}{3} \div 2\frac{1}{2}$

## KEY

1.  $\frac{4}{15}$
2.  $\frac{1}{6}$
3.  $\frac{1}{3}$
4.  $\frac{1}{6}$
5.  $\frac{13}{300}$
6.  $\frac{13}{10}$  or  $1\frac{3}{10}$
7.  $\frac{11}{6}$
8.  $\frac{2}{5}$
9.  $-\frac{1}{60}$
10.  $\frac{5}{6}$
11.  $\frac{59}{66}$
12.  $\frac{5}{6}$
13.  $\frac{21}{8}$  or  $2\frac{5}{8}$
14.  $\frac{9}{16}$
15.  $\frac{19}{5}$  or  $3\frac{4}{5}$
16.  $\frac{39}{4}$  or  $9\frac{3}{4}$
17.  $\frac{31}{36}$
18.  $\frac{21}{8}$  or  $2\frac{5}{8}$
19. 4
20. -12
21.  $\frac{31}{240}$
22. 5
23.  $\frac{9}{7}$
24.  $\frac{9}{5}$  or  $1\frac{4}{5}$
25.  $\frac{121}{20}$  or  $6\frac{1}{20}$
26.  $\frac{1}{18}$
27.  $\frac{49}{24}$  or  $2\frac{1}{24}$
28.  $\frac{40}{19}$  or  $2\frac{2}{19}$