

January Exam
Chapter 3: Rational Numbers Answer Section

MULTIPLE CHOICE

1. B
2. A
3. D
4. D
5. A
6. A
7. B
8. A
9. C
10. D
11. B
12. C
13. B
14. C
15. A

SHORT ANSWER

$$16) -\frac{5}{6}, -\frac{7}{9}, -\frac{3}{4}, -\frac{2}{3}$$

$$17) -6\frac{7}{20}$$

$$18) 5\frac{13}{5}$$

$$19) 20\frac{73}{20}$$

$$20) -12\frac{5}{6}$$

$$21) 28\frac{45}{28}$$

$$22) 5\frac{4}{5}$$

$$23) 4\frac{2}{3}$$

$$24) \frac{5}{9}$$

$$25) 2\frac{3}{4}$$

$$26) -\frac{7}{2} \text{ or } 3\frac{1}{2}$$

$$27) \frac{5}{6}$$

Problems

$$28) 45.25 + 18.25 + (-31.64) + (-15.48) = 16.38b)$$

$$29) -2\frac{3}{4} - (-4\frac{1}{3}) - 2\frac{5}{6}$$

$$= -\frac{11}{4} + \frac{13}{3} - \frac{17}{6}$$

$$= -\frac{33}{12} + \frac{52}{12} - \frac{34}{12}$$

$$= \frac{-15}{12}$$

$$= -1\frac{1}{4}$$

$$30) a) 21 \times 490.47 = 10\,299.87$$

$$b) \$10\,524.00 - \$10\,299.87 = \$224.13$$

$$31) \left[1\frac{5}{7} \times \left(-3\frac{5}{6} \right) \right] \div \left[\left(-2\frac{1}{10} \right) \div 0\frac{7}{8} \right]$$

$$= \left[\frac{12}{7} \times \left(-\frac{23}{6} \right) \right] \div \left[\left(-\frac{21}{10} \right) \div \frac{7}{8} \right]$$

$$= \left[\frac{12}{7} \times \left(-\frac{23}{6} \right) \right] \div \left[\left(-\frac{21}{10} \right) \times \frac{8}{7} \right]$$

$$= \left(-\frac{46}{7} \right) \div \left(-\frac{12}{5} \right)$$

$$= \left(-\frac{46}{7} \right) \times \left(-\frac{5}{12} \right)$$

$$= \frac{115}{42}$$