

GRADE 9 – Integers & Rationals Review

1. Evaluate the following:

a) $5 - (-13)$

b) $7 + (-16)$

c) $-27 + 34 - 6$

d) $-6(7)$

e) $-25(-2)(-1)$

f) $(-32) \div (-4)$

g) $(-3)^2 + (-1)^3$

h) -9^2

i) $3 + 5(7) - 2$

j) $(-6 - 4) \div 2(-4)$

k) $18 \div 3 \times 5 \div (-15) + 8$

l) $2^3(-5) - 25 \div 5$

m) $3^2 - (5 - 3^2)$

n) $22 \div 11 + (-36) \div 3 \times 4$

o) $22 \div 11 + (-36) \div (3 \times 4)$

p) $7^2 + (-3) \times 2 + (-9 + 4) \div 5$

q) $[7^2 + (-3)] \times [2 + (-9 + 4) \div 5]$

r) $99 \div (3 \times 11) - 2^2$

s) $2^3 + 5(-3)^2 - 20 \div 2^2$

t) $\frac{15 \div 5 - 16 \div (-4) + 1}{(-1)(-4) - 2}$

u) $\frac{-8 + (-12) \div 4 - (-2)}{4 - 5(-2) - 11}$

2. Identify which number set(s) each of the following numbers belongs to:

a) $-\frac{2}{3}$

b) 50

c) $\sqrt{3}$

d) $-1.\bar{4}$

3. Convert the following to *decimal* form:

a) $\frac{8}{7}$

b) $-3\frac{5}{8}$

c) $\frac{5}{33}$

d) $1\frac{1}{11}$

4. Convert the following to *fractional* form:

a) 0.48

b) 1.19

c) 3.375

d) $0.\overline{036}$

e) $0.0\overline{36}$

f) $0.2\overline{57}$

g) $1.\overline{18}$

h) $-5.\overline{26}$

5. Evaluate the following:

a) $(-1\frac{1}{5}) - (-\frac{2}{15})$

b) $(-\frac{7}{8})(-3\frac{1}{5})(-\frac{10}{3})$

c) $(-2\frac{1}{7}) \div (\frac{10}{21})$

d) $-(\frac{4}{5})^2$

e) $(-\frac{1}{3})^3$

f) $\frac{1}{8} + (-1\frac{2}{5})(-3\frac{1}{2})$

g) $(-\frac{5}{6}) - (-\frac{2}{3}) + (-\frac{5}{9})$

h) $[1\frac{1}{3} \div (-2)] - [(-5\frac{1}{3}) \div (-\frac{8}{7})]$

i) $\frac{\frac{1}{2} + \frac{2}{3}(-\frac{6}{11})}{(2\frac{3}{5}) \div (-\frac{1}{10})}$

j) $(-\frac{5}{2})^2 - (\frac{1}{4})^2$

k) $(-\frac{24}{45})(-\frac{18}{39})(\frac{5}{16})$

l) $-2\frac{1}{4} - (-1\frac{3}{5}) \div (-2\frac{3}{4})$

m) $\frac{\frac{1}{4} - (-\frac{2}{3}) + \frac{6}{5}}{(-\frac{1}{4})(-\frac{2}{3})(\frac{6}{5})} - \frac{(-\frac{1}{6}) + (-\frac{3}{5}) - \frac{7}{10}}{(-\frac{1}{6})(-\frac{3}{5})(\frac{7}{10})}$