

Grade 8 Review Unit Review HW Remember: NO CALCULATORS!

1. Evaluate each of the following. Where applicable, include a step to simplify by removing brackets before your final answer.

a) $-2 + (-10)$

b) $12 - (-3)$

c) $-4 - (+7) - (-9)$

d) $3(-6)(-5)$

e) $2(3)(-7)$

f) $36 \div (-4)$

g) $-48 \div (-8)$

h) $\left(\frac{-35}{7}\right) - \left(\frac{-16}{8}\right)$

i) $\left(\frac{-24}{3}\right) - \left(\frac{-42}{-6}\right)$

2. Evaluate.

a) $\left(\frac{3}{2}\right)^3$

b) $(-2)^4$

c) -5^2

d) $2^3 - 5 \times 3^2 + (6 - 10)^2$

e) $[-8 - (-11)]^2 \times [-13 + 4]$

f) $6 + 18 \div 3 \times 4$

g) $\frac{(-4 + 1)[-7 - (-7)]}{5 - 8}$

3. Evaluate each expression. Write your answers in lowest terms.

a) $\frac{3}{4} \times (-8) \times \left(\frac{-1}{12}\right)$

b) $\left(\frac{-3}{7}\right) \times \left(2\frac{2}{3}\right) \times \left(-1\frac{5}{9}\right)$

c) $\frac{1}{6} \div \left(1\frac{2}{3}\right)$

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

e) $\frac{1}{4} - \left(\frac{-3}{4}\right)$

f) $\frac{5}{4} - \frac{3}{8} + \frac{1}{3}$

g) $\left(\frac{1}{4} + \frac{3}{8}\right) \div \left(\frac{1}{5} \div \frac{-1}{2}\right)$

h) $\frac{7}{9} + \left(\frac{-3}{4}\right)\left(\frac{2}{9}\right) \div \frac{3}{7}$

Answers:

1a) -12, b)15, c)-2, d)90, e)-42, f)-9, g)6, h)-3, i)-15

2a) 27/8, b)16, c)-25, d)-21, e)-81, f)30, g)0

3a) 1/2, b)16/9, c)1/10, d)-5/9, e)1, f)29/24, g)-25/16, h)7/18