



MATH 9

**Unit 1: Rational Numbers
Review Quiz**

Name:

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1. Write a fraction that is equivalent to $\frac{4}{32}$.

2. What is the side length of a square that has an area of 225cm^2 ?

3. What is the side length of a square that has an area of 6.25m^2 ?

4. Solve the following:

a) $1\frac{1}{3} \times 2\frac{1}{7}$

b) $3\frac{3}{5} \times 2\frac{1}{3}$

c) $2\frac{3}{4} \times 1\frac{2}{3}$

d) $-1\frac{5}{6} \div 3\frac{3}{4}$

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

f) $2\frac{3}{5} \div \left(-4\frac{8}{9}\right)$

5. Solve the following:

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

b) $4\frac{2}{3} - 7\frac{5}{6}$

c) $9\frac{5}{8} - \left(-7\frac{2}{3}\right)$

d) $-2\frac{4}{9} + 5\frac{1}{5}$

e) $6\frac{2}{5} + 3\frac{1}{3}$

f) $-4\frac{3}{4} + \left(-2\frac{5}{6}\right)$

6. Edward has 1000 video games. He gives $\frac{1}{5}$ to his brother. He then gives $\frac{1}{4}$ of the remaining amount to his friend. How many video games does Edward have left?

7. The LCI Rams Basketball Team has \$10000 in their bank account. From this amount, they budget $\frac{1}{2}$ for travel expenses, $\frac{1}{4}$ for league expenses and $\frac{1}{8}$ for team expenses. How much money is left for the other expenses?

8. Dean has $\frac{1}{2}$ as much money as Jordan. Jordan has $\frac{4}{5}$ as much money as Sara. Sara has \$120. How much money do Dean and Jordan each have?

10. Explain the difference between a rational and an irrational number.