Math 6 - Unit 1: **Number System Fluency**

End of Unit Study Guide(Fractions)

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1) $\frac{4}{6} \div \frac{8}{12} =$

Answer: _____

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2) $2\frac{1}{7} \div 4\frac{1}{5} =$

Answer: _____

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3) Which shows a correct way to solve $\frac{5}{9} \div \frac{9}{10}$?

a) $\frac{3}{4} \cdot \frac{7}{12} = \frac{21}{48} = \frac{7}{16}$

b) $\frac{4}{3} \cdot \frac{7}{12} = \frac{28}{36} = \frac{7}{9}$

c) $\frac{4}{3} \cdot \frac{12}{7} = \frac{48}{21} = \frac{16}{7} = 2\frac{2}{7}$

d) $\frac{3}{4} \cdot \frac{12}{7} = \frac{36}{28} = \frac{9}{7} = 1\frac{2}{7}$

Answer: _____

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4) A shelf $5\frac{3}{4}$ inches wide. If CDs are $\frac{1}{2}$ inches wide, how many CDs can be placed on the shelf?

a) 6   b) 7   c) $7\frac{1}{2}$ d) 8

Answer: _____

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5) Which choice shows the **reciprocal** of $\frac{3}{14}$?

a) $\frac{17}{2}$ b) $1\frac{2}{7}$ c) $\frac{15}{17}$ d) $\frac{2}{7}$

Answer: _____

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6) Simplify: $\frac{15}{48}$

Answer: _____

7) How much candy will each person get if 8 people share $2\frac{3}{4}$ pounds of candy?

Answer: _____

8) The man at Home Depot is cutting a board that is $\frac{11}{12}$ foot long into $\frac{1}{12}$ foot pieces. How many pieces can he cut?

Answer: _____

9) Convert to a mixed number:
$$\frac{21}{6}$$

Answer: _____

10) Convert to an improper fraction:
$$10\frac{2}{9}$$

Answer: _____