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Year 7 Fractions Revision

Question 1 – Equivalent Fractions

Fill in the missing number.

a. $\frac{3}{5} = \frac{\quad}{15}$	b. $\frac{2}{\quad} = \frac{10}{20}$
c. $\frac{\quad}{32} = \frac{2}{8}$	d. $\frac{4}{9} = \frac{12}{\quad}$

Question 2 – Simplifying Fractions

Simplify the following:

a. $\frac{8}{48} = -$	b. $\frac{15}{35} = -$
c. $\frac{2}{18} = -$	d. $\frac{14}{49} = -$

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Question 3 – Converting Improper Fractions to Mixed Fractions

Express the following improper fractions as mixed fractions.

a. $\frac{17}{6}$	b. $\frac{33}{5}$
c. $\frac{42}{9}$	d. $\frac{50}{7}$

Question 4 – Converting Mixed Fractions to Improper Fractions

Express the following mixed fractions as improper fractions.

e. $2\frac{5}{6}$	f. $8\frac{1}{4}$
g. $4\frac{3}{7}$	h. $6\frac{8}{11}$

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Question 5 – Comparing Fractions

Circle the largest fractions.

i. $\frac{2}{3}$ $\frac{2}{7}$ $\frac{2}{5}$	j. $\frac{4}{9}$ $\frac{3}{9}$ $\frac{7}{9}$
k. $\frac{2}{5}$ $\frac{9}{15}$	l. $\frac{4}{7}$ $\frac{5}{9}$
m. $\frac{9}{36}$ $\frac{3}{4}$	n. $\frac{7}{9}$ $\frac{4}{5}$

Question 6 – Ordering Fractions

Arrange the following fractions in **ascending** order.

a. $\frac{1}{4}$ $\frac{3}{20}$ $\frac{4}{5}$	b. $\frac{2}{3}$ $\frac{7}{12}$ $\frac{3}{9}$
c. $\frac{4}{15}$ $\frac{6}{10}$ $\frac{5}{12}$	d. $\frac{2}{9}$ $\frac{4}{5}$ $\frac{9}{15}$

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Question 7 – Computation with Fractions

Evaluate the following:

a. $\frac{3}{15} + \frac{2}{15}$	b. $\frac{10}{16} - \frac{2}{16}$
c. $\frac{3}{5} + \frac{2}{15}$	d. $\frac{16}{24} - \frac{1}{3}$
e. $\frac{3}{5} + \frac{2}{7}$	f. $\frac{7}{9} - \frac{1}{3}$
g. $\frac{5}{6} + \frac{1}{7}$	h. $\frac{7}{8} - \frac{2}{6}$

i. $\frac{2}{9} \times \frac{18}{20}$	j. $\frac{10}{21} \times \frac{7}{9}$
k. $\frac{3}{4} \div \frac{5}{16}$	l. $\frac{20}{3} \div \frac{2}{9}$
m. $2\frac{1}{3} + 1\frac{3}{4}$	n. $6\frac{1}{2} - 2\frac{3}{4}$
o. $4\frac{1}{5} \div 3\frac{1}{2}$	p. $4\frac{1}{6} \times 2\frac{2}{9}$

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Question 7 – Fractions Word Problems

a. Max and Sara shared a cake. Max ate $\frac{3}{5}$ of the cake. Sara ate $\frac{1}{4}$ of the cake. What fraction of the cake remains?

b. A string is cut into 7 pieces. Each piece is $2\frac{3}{5}$ m long. What is the original length of the string?

c. Daisy used $\frac{2}{5}$ of a bag of sugar to bake cookies. There was 150 grams of sugar left. How much sugar did Daisy use to bake cookies?

d. In a class of 35 students, $\frac{4}{7}$ of the students failed the maths test. How many students in the class passed the test?

e. Annie earned $600 a week. She spent $120 on food and $80 on clothes. What fraction of her earnings did she save each week?

f. Wendy mixed $3\frac{1}{3}$ litres of water and $1\frac{2}{5}$ litres of fruit juice concentrate to make slurpees. How much slurpees did she make?

g. Tom is $\frac{1}{8}$ m taller than Paul. Paul is $\frac{1}{3}$ m shorter than Daniel. If Tom is $1\frac{9}{10}$ m. How tall is Daniel?