Test - Fractions: equivalent, mixed numbers and improper

Year: Year 5 · Duration: 40 minutes · /20

Name:	Date:	**Mark: /20**

Question	1	2	3	4	5	Total
marks	4	4	4	3	5	**20**
Mark						

Show your working.

Question 1 (4 marks)

Question 1 – Equivalent and simplest form

(a) Find the missing number: $\frac{5}{6} = \frac{?}{24}$.

(b) Simplify $\frac{18}{30}$.

(c) Write three fractions equivalent to $\frac{2}{5}$.

(d) Are $\frac{3}{4}$ and $\frac{9}{16}$ equivalent? Explain.

Question 2 (4 marks)

Question 2 – Improper fractions and mixed numbers

(a) Write $\frac{23}{5}$ as a mixed number.

(b) Write $4\frac{2}{3}$ as an improper fraction.

(c) Write $\frac{15}{4}$ as a mixed number.

(d) Write $2\frac{5}{8}$ as an improper fraction.

Question 3 (4 marks)

Question 3 – Comparing fractions

(a) Write < or >: $\frac{5}{8} \square \frac{3}{4}$.

(b) Put these in order, smallest first: $\frac{2}{3}$, $\frac{5}{6}$, $\frac{7}{12}$.

(c) Which is bigger, $2\frac{1}{2}$ or $\frac{7}{3}$?

Question 4 (3 marks)

Question 4 – Fractions on a number line

(a) Write $\frac{5}{2}$ as a mixed number.

(b) Between which two whole numbers does $\frac{11}{4}$ lie?

(c) Write down a fraction that lies between $1\frac{1}{2}$ and 2.

Question 5 (5 marks)

Question 5 – Sharing the sandwiches

Four friends share 6 sandwiches at a picnic. Each sandwich is cut into 8 equal pieces. Zoe eats $\frac{13}{8}$ sandwiches, Omar eats $\frac{7}{4}$ sandwiches, Pia eats $1\frac{1}{2}$ sandwiches and Sam eats the rest.

(a) Write $\frac{13}{8}$ as a mixed number. (1 mark)

(b) Write all four amounts as eighths, and show that Zoe, Omar and Pia eat $\frac{39}{8}$ sandwiches altogether. (2 marks)

(c) What fraction of a sandwich does Sam eat? (1 mark)

(d) Who eats the most? (1 mark)