Test - Adding, subtracting and multiplying fractions

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 – Adding and subtracting fractions

(a) $\frac{2}{9} + \frac{5}{9}$

(b) $\frac{7}{8} - \frac{3}{8}$

(c) $\frac{3}{4} + \frac{5}{8}$

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

Question 2 (4 marks)

Question 2 – Mixed numbers

(a) $2\frac{1}{3} + 1\frac{1}{3}$

(b) $3\frac{3}{4} + 1\frac{1}{2}$

(c) $4\frac{1}{2} - 1\frac{3}{4}$

(d) $5 - 2\frac{2}{5}$

Question 3 (4 marks)

Question 3 – Multiplying fractions

(a) $4 \times \frac{2}{5}$

(b) $6 \times \frac{3}{4}$

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

(d) Find $\frac{3}{5}$ of 40.

Question 4 (3 marks)

Question 4 – Spot the mistake

Ben writes $\frac{2}{5} + \frac{1}{5} = \frac{3}{10}$.

(a) Explain Ben's mistake. (1 mark)

(b) Work out the correct answer. (1 mark)

(c) Ben also says that $\frac{1}{2} + \frac{1}{4} = \frac{2}{6}$. Show that this is wrong by using a diagram or equivalent fractions. (1 mark)

Question 5 (5 marks)

Question 5 – The marathon relay

A relay team runs a race of 26 miles. Ruth runs $6\frac{1}{2}$ miles, Sam runs $7\frac{1}{4}$ miles and Tara runs $5\frac{3}{4}$ miles. Uma runs the rest.

(a) How far do Ruth, Sam and Tara run altogether? (2 marks)

(b) How far does Uma run? (1 mark)

(c) Each member of another team runs $\frac{13}{2}$ miles. There are 4 members. How far does the team run altogether? (1 mark)

(d) Is that team's distance bigger or smaller than 26 miles? By how much? (1 mark)