Test - Fractions: add, subtract, multiply and divide

Year: Year 6 · Duration: 40 minutes · /20

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

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

Show your working.

Question 1 (3 marks)

Question 1 – Equivalent fractions

a. Simplify $\frac{28}{42}$.
b. Write $\frac{3}{4}$ as a fraction with a denominator of 20.
c. Which is bigger, $\frac{7}{10}$ or $\frac{3}{4}$? Show your working.

Question 2 (4 marks)

Question 2 – Adding and subtracting

a. Work out $\frac{2}{5} + \frac{3}{10}$.
b. Work out $\frac{7}{8} - \frac{1}{3}$.
c. Work out $2\frac{2}{3} + 1\frac{3}{4}$.
d. Work out $4\frac{1}{6} - 1\frac{2}{3}$.

Question 3 (4 marks)

Question 3 – Multiplying and dividing

a. Work out $\frac{3}{5} \times \frac{5}{9}$.
b. Find $\frac{5}{8}$ of 72.
c. Work out $\frac{3}{4} \div 6$.
d. Work out $2\frac{1}{4} \times \frac{2}{3}$.

Question 4 (4 marks)

Question 4 – The cake

Lily bakes a cake. Her family eats $\frac{3}{8}$ of the cake on Saturday and $\frac{1}{4}$ of the cake on

Sunday.

a. What fraction of the cake has been eaten altogether?
b. What fraction of the cake is left?
c. Lily gives $\frac{1}{3}$ of the cake that is left to her neighbour. What fraction of the whole cake does the neighbour get?

Question 5 (5 marks)

Question 5 – The marathon runners

A charity organises a fun run. There are 240 runners. $\frac{3}{8}$ of the runners are children, $\frac{1}{4}$ are teenagers and the rest are adults.

Group	Fraction of runners
Children	$\frac{3}{8}$
Teenagers	$\frac{1}{4}$
Adults	?

a. What fraction of the runners are adults?
b. How many children are running?
c. $\frac{2}{5}$ of the adults finish in under 30 minutes. How many adults is that?
d. The charity raises £2.50 for each runner. $\frac{3}{5}$ of the money goes to a hospital. How much money goes to the hospital?