FRACTIONS

MTH 4-07b

I can solve problems involving fractions and mixed numbers in context, using addition, subtraction or multiplication.

Pupils should be able to:

- Calculate a fraction of a quantity
- Understand and use equivalence of fractions
- Understand that a fraction represents a division operation eg $\frac{3}{5}$ means $3 \div 5$
- Add, subtract and multiply fractions including mixed fractions.
- (Divide by a fraction, preferably in a context.)

- Apply to problems in a variety of contexts, including pie-charts.

PUPILS SHOULD COMPLETE THE FOLLOWING EXERCISE AND ASSESS THEIR PROGRESS BY TICKING ONE OF THE OPTIONS FOR EACH TOPIC IN THE TABLE BELOW

	DEVELOPING	CONSOLIDATING	SECURE
Calculate a fraction of a quantity. (Question 1)			
Understand equivalence of fractions. (Questions 2 & 3)			
Add, subtract, multiply (and as extension divide fractions) (Question 4 – 6)			
Apply to problems (Questions 7 – 9)			

mymaths lessons: library/number/fractions/any lesson in this section

1. Calculate:-

a) $\frac{3}{5}$ of 60

b) $\frac{7}{9}$ of 63

c) $\frac{4}{5}$ of 45

2. Which pairs of fractions are equivalent:-

a) $\frac{4}{5}$, $\frac{2}{3}$

b) $\frac{9}{12}$, $\frac{3}{4}$

c) $\frac{2}{5}$, $\frac{3}{6}$

3. Shannon has $\frac{1}{2}$ of a pizza and Clare has $\frac{3}{6}$ of the pizza. Do they eat the same amount?

4. Calculate:

a) $\frac{6}{7}$ + $\frac{2}{3}$

b) $3\frac{4}{5}$ + $2\frac{1}{2}$

c) $\frac{6}{7}$ - $\frac{4}{7}$

d) $6\frac{7}{8}$ - $4\frac{3}{4}$

e) $3\frac{4}{5}$ - $\frac{2}{3}$

5. Multiply the following fractions:-

a) $\frac{3}{7}$ × $\frac{4}{9}$

b) $\frac{3}{9}$ × $\frac{4}{5}$

c) $10\frac{1}{2}$ × $\frac{6}{7}$

e) $1\frac{1}{3}$ × $7\frac{2}{5}$

6. Divide the following fractions:-

a) $\frac{2}{3}$ ÷ $\frac{1}{4}$

b) $\frac{3}{5}$ ÷ $\frac{2}{3}$

c) $4\frac{1}{2}$ ÷ $5\frac{1}{4}$

d) 8 ÷ $2\frac{2}{3}$

7) A piece of card measures $1\frac{5}{8}$ inches wide by $6\frac{1}{3}$ inches long. Calculate its area.

8) A fruit shop owner had $6\frac{2}{3}$ kg of strawberries. He sold $3\frac{4}{5}$ kg to one customer. What weight of strawberries were left?

9) From a 6metre length of ribbon Sally used $4\frac{3}{8}$ of this to wrap a present. How much did she have left?