Sutton Maths Class

Year 4 - Week 1 - Fractions

Starter:

1 6392 + 4321 = 10,713

2 1293 + 999 = 2292

3 10293 - 4952 = 5341

4 24 x 5 = 120

5 1638 ÷ 3 = 546

6 32 x 7 = 224

7 92 ÷ 4 = 23

8 $\frac{1}{3}$ of £3.06 = £1.02

9 £3.20 x 4 = £12.80

10 (4 x 3) + (6 x 2) - (2 x 3) = 18
12 + 12 - 6

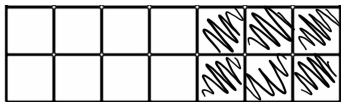
11 Multiply $5\frac{1}{2}$ by 4 = 22

12 $\frac{5}{6} - \frac{3}{6} = \frac{1}{3}$

13 Put these fractions in **ascending** order:

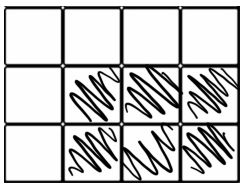
$\frac{3}{10}, \frac{7}{10}, \frac{1}{2}, \frac{4}{10}$ Already in order

14 What fraction of the following is shaded?



$\frac{6}{14} = \frac{3}{7}$

15 What fraction of the following is shaded?



$\frac{6}{12} = \frac{1}{2}$

16 £1.17 ÷ 9 = £0.13

17 £5.65 + £1.20 = £6.85

18 $\frac{3}{10} + \frac{9}{10} = 1\frac{1}{5}$

19* $\frac{7}{8} - \frac{6}{8} = \frac{1}{8}$

20* 7600 ÷ 100 = 76

Questions:

Fractions: simplifying and equivalencies. Proper to improper fractions. Remainders as fractions.

1 Simplify:

a) $\frac{6}{10} = \frac{3}{5}$

b) $\frac{4}{12} = \frac{1}{3}$

c) $\frac{3}{9} = \frac{1}{3}$

d) $\frac{10}{100} = \frac{1}{10}$

e) $\frac{12}{30} = \frac{2}{5}$

f) $\frac{10}{35} = \frac{2}{7}$

g) $\frac{49}{70} = \frac{7}{10}$

h*) $\frac{30}{10} = 3$

2 Complete the following:

a) $\frac{3}{10} = \frac{?9}{30}$

b) $\frac{4}{5} = \frac{?20}{25}$

c) $\frac{5}{6} = \frac{50}{?60}$

d*) $\frac{3}{4} = \frac{?18}{24} = \frac{15}{?20}$

e*) $\frac{12}{10} = \frac{?6}{5} = \frac{30}{?25}$

f**) $\frac{7}{5} = \frac{?21}{15} = \frac{49}{?35} = \frac{?350}{250}$

3 Convert the following mixed numbers into improper fractions:

a) $5\frac{2}{3} = \frac{17}{3}$ b) $7\frac{3}{4} = \frac{31}{4}$

c) $10\frac{1}{2} = \frac{21}{2}$ d) $3\frac{7}{8} = \frac{31}{8}$

e*) $20\frac{6}{7} = \frac{146}{7}$ f*) $50\frac{1}{2} = \frac{101}{2}$

4 Find the remainder for the following:

a) $56 \div 6 = 9r2$

b) $75 \div 10 = 7r5$

c) $30 \div 7 = 4r2$

5 Now write the answer to the following as a mixed number and a fraction:

a) $56 \div 6 = 9\frac{1}{3}$

b) $75 \div 10 = 7\frac{1}{2}$

c) $30 \div 7 = 4\frac{2}{7}$

6* Write the following in ascending order:

$1\frac{2}{3}, 1\frac{4}{7}, \frac{8}{5}$ Already in order

7** Find $\frac{1}{2} of \frac{3}{4} = \frac{3}{8}$

Hint: you could use an equivalent fraction for $\frac{3}{4}$

8** Write the following in **descending** order:

$\frac{3}{8}, \frac{2}{10}, \frac{13}{40}, \frac{5}{20}$ $\frac{3}{8}, \frac{13}{40}, \frac{1}{2}, \frac{2}{10}$

Hint: use equivalent fractions to help you compare them.