Thursday 7th January

Maths

Convert these fractions into decimals:

1)
$$\frac{1}{5}$$

1)
$$\frac{1}{5}$$
 = 2) $\frac{3}{12}$ =

3)
$$\frac{3}{8}$$
 = 4) $\frac{4}{5}$ =

5)
$$\frac{7}{4} = 6) \frac{7}{16} =$$

7)
$$\frac{1}{6}$$
 = 8) $\frac{11}{2}$ =

9)
$$\frac{18}{8}$$
 = 10) $\frac{6}{15}$ =

11)
$$\frac{7}{3}$$
 = 12) $\frac{6}{20}$ =

13)
$$\frac{9}{15}$$
 = 14) $\frac{16}{6}$ = 15) $\frac{7}{9}$ = 16) $\frac{9}{5}$ =

$$\frac{1}{r} = 0.2$$

3)
$$\frac{3}{8}$$
 = 0.375

1)
$$\frac{1}{5}$$
 = 0.2 2) $\frac{3}{12}$ = 0.25 3) $\frac{3}{8}$ = 0.375 4) $\frac{4}{5}$ = 0.8

5)
$$\frac{7}{4}$$
 = 1.75

7)
$$\frac{1}{6} = 0.166$$

5)
$$\frac{7}{4} = \frac{1.75}{16} = \frac{0.4375}{16} = \frac{0.166}{6} = \frac{11}{2} = \frac{5.5}{6}$$

$$11) \frac{7}{2} = 2$$

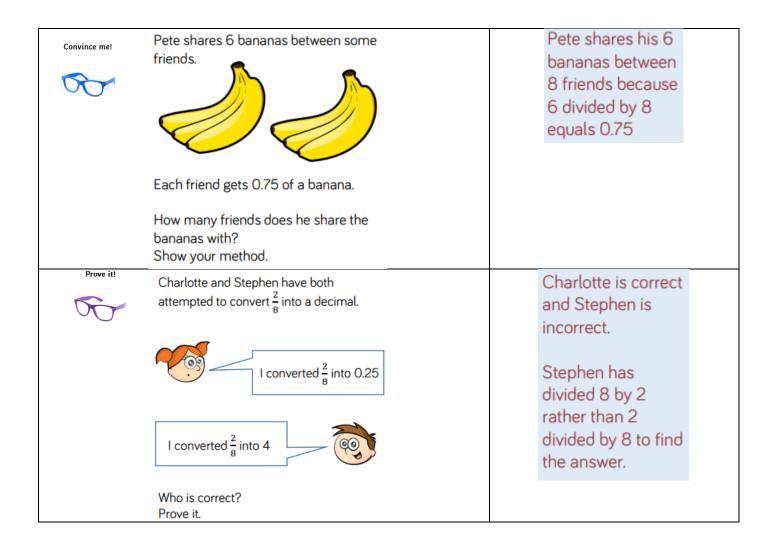
9)
$$\frac{18}{8}$$
 = 2.25 10) $\frac{6}{15}$ = 0.4 11) $\frac{7}{3}$ = 2.33 12) $\frac{6}{20}$ = 0.3

$$\frac{9}{15} = 0.6$$

$$15) \quad \frac{7}{9} \quad = \quad ($$

13)
$$\frac{9}{15}$$
 = 0.6 14) $\frac{16}{6}$ = 2.66 15) $\frac{7}{9}$ = 0.77 16) $\frac{9}{5}$ = 1.8

	Problem Solving and Reasoning	Answers
Explain it!	True or False? 0.3 is bigger than $\frac{1}{4}$	0.3 is bigger than one quarter because one quarter is equivalent to 0.25
	Explain your reasoning.	
Explain it!	The decimal 0.42 can be read as 'four tenths and two hundredths'. Bix says, The decimal 0.42 can be read as 'forty-two hundredths'.	Both are correct. Four tenths are equivalent to forty hundredths, plus the two hundredths equals forty-two hundredths.
	Who do you agree with? Explain your answer.	
Explain it!	 Hannah and Alex are converting 30/500 into a decimal. Hannah doubles the numerator and denominator, then divides by 10 Alex divides both the numerator and the denominator by 5 	$\frac{25}{500}$ - divide by 5, known division fact. $\frac{125}{500}$ - double, easier than dividing 125 by 5
	• Both get the answer $\frac{6}{100} = 0.06$ Which method would you use to work out each of the following? $ \frac{25}{500} \frac{125}{500} \frac{40}{500} \frac{350}{500} $ Explain why you have used a certain method.	40 500 - divide by 5, known division fact. 350 500 - double, easier than dividing 350 by 5



<u>Further Challenge</u>

1) Give either the decimal or simplified fraction that will make these number statements true.



$$+ \frac{4}{20} + 0.05 = 1$$

$$\frac{3}{24} + \frac{300}{500} + \boxed{}$$
 = 1

2) Copy and complete each of the number statements in three different ways. Try to use all the different fraction cards and decimals of your choice.

$$\frac{?}{20}$$
 $\frac{?}{25}$ $\frac{?}{50}$ $\frac{?}{200}$ $\frac{?}{500}$ $\frac{?}{8}$ $\frac{?}{5}$ $\frac{?}{3}$

b) --- + --- = 0.__ = an answer between
$$\frac{2}{5}$$
 and $\frac{4}{5}$

c) - + - = 0. _ = an answer between
$$\frac{3}{4}$$
 and $\frac{7}{8}$