Fractions

Challenge Cards

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1

0 1 2 3 4 5 6 7 8 9 10

Using each digit only once in each set, make groups of equivalent fractions. How many families of equivalent fractions can you make? What's the most equivalent fractions you can make in one set?

~~0~~ ~~1~~ ~~2~~ ~~3~~ ~~4~~ 5 ~~6~~ 7 ~~8~~ 9 10

$\frac{1}{2} = \frac{3}{6} = \frac{4}{8}$

2

If the sequences are continued, which sequences will include 2?

$\frac{4}{10}, \frac{6}{10}, \frac{8}{10}$ ...

2.5 , 2.4 , 2.3 ...

5.4 , 4.8 , 4.2 ...

1.6 , ___ , 2.4 , ___ , 3.2 ...

4 , 3 $\frac{7}{10}$, 3 $\frac{4}{10}$ ...

7.5 , ___ , ___ , 6 , ___ , 5 ...

0.9 , 1.2 , 1.5 ...

$\frac{4}{10}, \frac{6}{10}, \frac{8}{10}$ ...

3

Fill in the empty boxes:

$\frac{2}{6} + \square = \frac{5}{6}$

$\square - \frac{4}{8} = \frac{3}{8}$

$\frac{9}{4} - \square = \frac{2}{4}$

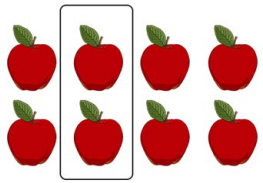
$\frac{5}{3} + \square = \frac{7}{3}$

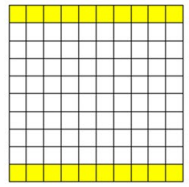
$\square - \frac{4}{5} = \frac{3}{5}$

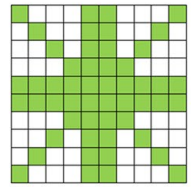
$\square + 1\frac{2}{7} = 1\frac{6}{7}$

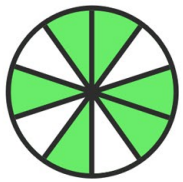
4

What does each image represent as a fraction and as a decimal?









5

Which of the calculations have $\frac{4}{10}$ in the answer?

Which of the calculations have $\frac{2}{100}$ in the answer?

20 ÷ 100 =	24 ÷ 10 =
4 ÷ 10 =	42 ÷ 10 =
42 ÷ 100 =	2 ÷ 100 =
40 ÷ 100 =	4 ÷ 100 =
2 ÷ 10 =	40 ÷ 10 =
24 ÷ 100 =	20 ÷ 10 =

6

Give 3 numbers which round to each of the numbers given:

17 **49**

6 **100**

7

Complete the statements below using the digits 0 4 5 6. You can use each digit once in each number. Can you find 5 different ways to complete each statement?

□.□□ < □.□□

□.□□ > □.□□

8

Aleena has £30 to spend on a day at an amusement park. She spends $\frac{2}{3}$ of it on the ticket and $\frac{7}{10}$ of the remaining amount on souvenirs. After that, she spends $\frac{2}{3}$ of what's left on snacks.

How much money does she go home with?