

Name _____ Date _____

1. Language check

Arun asks Reza for some help understanding some maths questions. Reza explains some of the terminology. Match Arun's questions with Reza's explanations.

Arun's questions

- a What does it mean when it says 'Improve on these strategies'? ii
- b What is an equivalent decimal? _____
- c I don't understand what 'Cancel the common factors before multiplying' means. _____
- d What is a terminating decimal? _____
- e What does 'recurring decimal' mean? _____

Reza's explanations

- i You have to divide the numerator and denominator of a fraction by a common factor.
- ii Find a better method to use.
- iii A decimal number that has the same value as a fraction.
- iv When the last number or numbers in a decimal repeat forever.
- v A decimal number that does not go on forever.

2. ADDING AND SUBTRACTING FRACTIONS CODEBREAKER

A	B	C	D	E	F	G	H	I	J	K	L	M
$4\frac{3}{4}$	$2\frac{1}{3}$	$\frac{7}{12}$	$\frac{11}{12}$	$1\frac{9}{28}$	$5\frac{2}{5}$	$3\frac{7}{8}$	$1\frac{7}{15}$	$7\frac{11}{56}$	$2\frac{7}{12}$	$3\frac{1}{5}$	$3\frac{13}{20}$	$1\frac{5}{6}$

N	O	P	Q	R	S	T	U	V	W	X	Y	Z
$2\frac{1}{4}$	$1\frac{5}{12}$	$1\frac{2}{3}$	$6\frac{3}{56}$	$1\frac{11}{30}$	$2\frac{5}{8}$	$1\frac{1}{2}$	$3\frac{3}{10}$	$\frac{13}{15}$	$4\frac{2}{15}$	$6\frac{1}{4}$	$1\frac{7}{20}$	$3\frac{11}{20}$

Calculate the answers to the fraction problems below giving your answers in their simplest form as a mixed number, link your answers to the table above to reveal how I managed to sell a TV with a broken volume button to my friend:

$\frac{3}{4} + \frac{3}{4}$	$\frac{4}{5} + \frac{2}{3}$	$\frac{4}{7} + \frac{3}{4}$	$1\frac{3}{5} - \frac{1}{4}$	$1\frac{1}{3} - \frac{3}{4}$	$\frac{3}{4} + \frac{2}{3}$	$1\frac{1}{5} + 2\frac{1}{10}$	$2\frac{1}{4} + 1\frac{2}{5}$

$1\frac{3}{4} - \frac{5}{6}$	$1\frac{1}{2} + \frac{3}{4}$	$2\frac{7}{24} - \frac{7}{8}$	$2 - \frac{1}{2}$	$\frac{5}{6} + \frac{2}{3}$	$5\frac{13}{20} - 2\frac{7}{20}$	$3\frac{1}{5} - 1\frac{5}{6}$	$5 - 2\frac{3}{4}$

$4\frac{4}{7} + 2\frac{5}{8}$	$3\frac{1}{3} - 1\frac{5}{6}$	$2\frac{1}{3} - 1\frac{5}{12}$	$3\frac{3}{4} - 2\frac{1}{3}$	$1\frac{1}{3} + 1\frac{1}{5}$ $+ 1\frac{3}{5}$	$4\frac{1}{8} - \frac{1}{2} - \frac{3}{4}$ $- \frac{5}{8}$