# Exploding Dots Worksheet

### Mackenzie Math Club

#### Mechania 1

What are the following in a  $1 \leftarrow 2$  machine?

$$1 \xrightarrow{1 \leftarrow 2}$$

$$4 \xrightarrow{1 \leftarrow 2}$$

$$2 \xrightarrow{1 \leftarrow 2}$$

$$5 \xrightarrow{1 \leftarrow 2}$$

$$5 \stackrel{1\leftarrow 2}{\longrightarrow}$$

$$3 \stackrel{1 \leftarrow 2}{=}$$

$$13 \xrightarrow{1 \leftarrow 2}$$

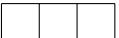
#### Arithmos 2

Calculate the following addition and multiplication problems:

$$234 + 125$$



$$234 + 187$$



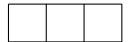
$$2876 \times 3$$

#### Antidotia 3

Calculate the following subtraction problems:

$$564 - 123$$

$$441 - 254$$

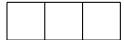


#### Obelus 4

$$276 \div 12$$

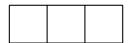
## 5 Eks

$$\frac{2x^2 + 7x + 6}{x + 2}$$



$$\frac{x^4 + 2x^3 + 4x^2 + 6x + 3}{x^2 + 3}$$

		I	
		I	
		I	
		I	
		I	



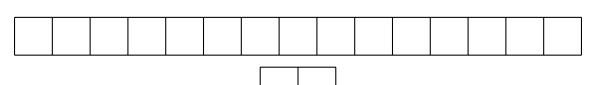
$$\frac{x^3 - 3x + 2}{x + 2}$$





### 6 Infinitia

$$\frac{1}{1-r}$$



$$\frac{1}{1-x-x^2}$$

