Exploding Dots Worksheet

Mackenzie Math Club

1 Mechania

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 $\xrightarrow{1 \leftarrow 2}$

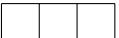3 $\xrightarrow{1 \leftarrow 2}$

13 $\xrightarrow{1 \leftarrow 2}$

2 Arithmos

Calculate the following addition and multiplication problems:
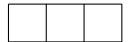
$234 + 125$

$234 + 187$

2876×3

3 Antidotia

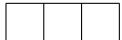Calculate the following subtraction problems:

$564 - 123$

$441 - 254$

4 Obelus

$276 \div 12$

5 Eks

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

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

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

6 Infinitia

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

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