Introduction to Long Division

1) Joseph uses this method for long division.

Multiples of 16
16 × 1 = 16
16 × 2 = 32
16 × 3 = 48
16 × 4 = 64
16 × 5 = 80

Joseph

			5	4	
1	6	8	6	4	
	–	8	0	0	(16 × 50)
			6	4	
		–	6	4	(16 × 4)
				0	

Use Joseph's method to calculate:

a) 954 ÷ 18 =

b) 805 ÷ 23 =

c) 972 ÷ 27 =

d) 1044 ÷ 18 =

2) Felix uses a different method for long division.

Use Felix's method to calculate:

a) 552 ÷ 12 =

b) 462 ÷ 11 =

c) 3936 ÷ 32 =

d) 8372 ÷ 28 =

Felix

			5	4
1	6	8	6	4
	–	8	0	↓
			6	4
		–	6	4
				0

3) A family ticket for the cinema costs £21. The cinema sells £756 worth of family tickets in a week. Use your preferred method to work out how many family tickets have they sold.

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1) Identify and correct the mistake.

		1	3	0
2	4	3	1	2
	–	2	4	↓
			7	2
		–	7	2
				0

2) Elena and Hari are using long division to solve 900 ÷ 75. Which of their methods will work? Explain your reasoning.

Elena: I will use my knowledge of multiplying by 10 to help me solve the problem.

Hari: I will use the first five multiples of 75 to help me solve the problem.

3) Do you agree with Zeke? Explain your reasoning.

Zeke: I think that A is the odd one out.

A) 2808 ÷ 24 = ☐

B) ☐ ÷ 24 = 212

C) 1872 ÷ ☐ = 24

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1) Elias thinks he will have the most packs of counters at the end. Do you agree? Explain why.

2) Use each of the digit cards only once to fill in the missing numbers in the long division calculations.

a)

			6	4
1	4	8	9	▢
	–	8	▢	
			5	6
		–	5	6
				0

b)

				8
1	▢	6	4	6
	–	▢	1	
		1	3	6
	–	1	3	6
				▢

c)

					9
1	2	1	0	6	8
	–		▢	6	
			1	0	8
		–	1	0	8
					0

6	8	3	4	7	5	9	0

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