

Short division

1 Complete the divisions.

a)

| | | | | |
|---|---|---|---|--|
| | | | | |
| | 1 | 1 | 3 | |
| 5 | 5 | 6 | 5 | |
| | | | | |

| | | | | |
|---|---|---|---|--|
| | | | | |
| | 1 | 3 | 3 | |
| 5 | 6 | 6 | 5 | |
| | | | | |

| | | | | | |
|---|---|---|---|---|--|
| | | | | | |
| | 0 | 9 | 3 | 0 | |
| 5 | 4 | 6 | 5 | 0 | |
| | | | | | |

b)

| | | | | |
|---|---|---|---|--|
| | | | | |
| | 3 | 2 | 1 | |
| 3 | 9 | 6 | 3 | |
| | | | | |

| | | | | |
|---|---|---|---|--|
| | | | | |
| | 3 | 2 | 4 | |
| 3 | 9 | 7 | 2 | |
| | | | | |

| | | | | | |
|---|---|---|---|---|--|
| | | | | | |
| | 0 | 6 | 9 | 3 | |
| 3 | 2 | 0 | 7 | 9 | |
| | | | | | |

2 Continue the sequence.

12, 24, 36, 48, 60, 72, 84, 96, 108

Complete the short divisions.

| | | | | |
|----|---|---|---|---|
| | | | | |
| | 0 | 5 | 2 | 1 |
| 12 | 6 | 2 | 5 | 2 |
| | | | | |

| | | | | |
|----|---|---|---|---|
| | | | | |
| | 0 | 1 | 6 | 7 |
| 12 | 2 | 0 | 8 | 4 |
| | | | | |

| | | | | |
|----|---|---|---|---|
| | | | | |
| | 0 | 0 | 9 | 9 |
| 12 | 1 | 1 | 8 | 8 |
| | | | | |

3 Match each division to the remainder.

| |
|---------|
| 756 ÷ 4 |
|---------|

| |
|---------|
| 757 ÷ 4 |
|---------|

| |
|---------|
| 758 ÷ 4 |
|---------|

| |
|---------|
| 759 ÷ 4 |
|---------|

| |
|---------|
| 760 ÷ 4 |
|---------|

| |
|----|
| r0 |
|----|

| |
|----|
| r1 |
|----|

| |
|----|
| r2 |
|----|

| |
|----|
| r3 |
|----|

| |
|----|
| r4 |
|----|

| |
|----|
| r5 |
|----|

| |
|---------|
| 756 ÷ 2 |
|---------|

| |
|---------|
| 756 ÷ 3 |
|---------|

| |
|---------|
| 756 ÷ 4 |
|---------|

| |
|---------|
| 756 ÷ 5 |
|---------|

| |
|---------|
| 756 ÷ 6 |
|---------|

4 Complete the calculations.

a) $637 \div 5 = \boxed{127r2}$

b) $1,036 \div 8 = \boxed{129r4}$

c) Two thousand divided by eleven is equal to one hundred and eighty-one remainder nine.

d) $297 \div \boxed{99} = 3$



5 Work out the values of a , b , c and d .

| | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|
| 1,386 | | | | | | |
| a | a | a | a | a | a | a |

$$1386 \div 7 =$$

$$a = \boxed{198}$$

| | | | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|
| b | b | b | b | b | b | b | b | b |
| 3,339 | | | | | | | | |

$$3339 \div 9 = 371$$

$$b = \boxed{371}$$

| | | | | |
|-----|----|-----|----|-----|
| 54 | 54 | 54 | 54 | 54 |
| c | | c | | c |

$$54 \times 5 = 270$$

$$270 \div 3 = 90$$

$$c = \boxed{90}$$

$$72 \times 24 = d \times 6$$

$$1728 \div 6 = 288$$

$$d = \boxed{288}$$



6



How much does one bottle cost?

$$£6 \div 12 = 600p \div 12 = 50p$$

$$\boxed{50p}$$

Talk to a partner about the mistakes people may make with this question.

7

Tommy is thinking of a number between 800 and 900

He divides it by 4 and there is a remainder of 1 *← must be odd*

He divides it by 5 and there is a remainder of 1 *← must end in 1*

He divides it by 6 and there is a remainder of 1

He divides it by 7 and there is a remainder of 1

What is Tommy's number?

801 X 851
 811 X 861 X
 821 X 871
 831 X 881
 841 891 X

$$\boxed{841}$$

8

Complete the divisions.

a)

| | | | | | | | |
|---|--|---|---|---|--|--|--|
| | | | | | | | |
| | | 0 | 4 | 8 | | | |
| 6 | | 2 | 8 | 8 | | | |

b)

| | | | | | | | |
|---|--|---|---|---|----|--|--|
| | | | | | | | |
| | | 2 | 4 | 8 | r1 | | |
| 4 | | 9 | 9 | 3 | | | |

c)

| | | | | | | | |
|--|---|---|---|---|----|--|--|
| | | | | | | | |
| | | 0 | 9 | 1 | r7 | | |
| | 8 | 7 | 3 | 5 | | | |

