## Homework/Extension Step 3: Short Division

### National Curriculum Objectives:

Mathematics Year 6: (6C7b) <u>Divide numbers up to 4 digits by a two-digit number using the</u> formal written method of short division where appropriate, interpreting remainders according to the context

### Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

**Developing** Match each statement to the correct answer when dividing a 3-digit or 4-digit number by a 1-digit number using the formal method of short division with up to 1 exchange. Whole number answers.

Expected Match each statement to the correct answer when dividing a 4-digit number by a 1-digit or 2-digit number using linear and formal short division methods with up to 2 exchanges with some use of remainders.

Greater Depth Match each statement to the correct answer when dividing a 4-digit number by a 2-digit number using linear and formal short division methods with multiple exchanges. Answers include remainders.

#### Questions 2, 5 and 8 (Varied Fluency)

**Developing** Use division of a 3-digit or 4-digit number by a 1-digit number to solve a true or false problem using the formal method of short division with up to 1 exchange. Whole number answers.

**Expected** Use division of a 4-digit number by a 1-digit or 2-digit number to solve a true or false problem using linear and formal short division methods with up to 2 exchanges with some use of remainders.

Greater Depth Use division of a 4-digit number by any 2-digit number to solve a true or false problem using linear and formal short division methods with multiple exchanges. Answers include remainders.

#### Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Explain which method of short division is correct when dividing a 3-digit or 4digit number by a 1-digit number using the formal method of short division with up to 1 exchange. Whole number answers.

**Expected** Explain which method of short division is correct when dividing a 4-digit number by a 1-digit or 2-digit number using linear and formal short division methods with up to 2 exchanges with some use of remainders.

Greater Depth Explain which method of short division is correct when dividing 4-digit number by any 2-digit number to solve a problem using linear and formal short division methods with multiple exchanges. Answers include remainders.

### More <u>Year 6 Four Operations</u> resources.

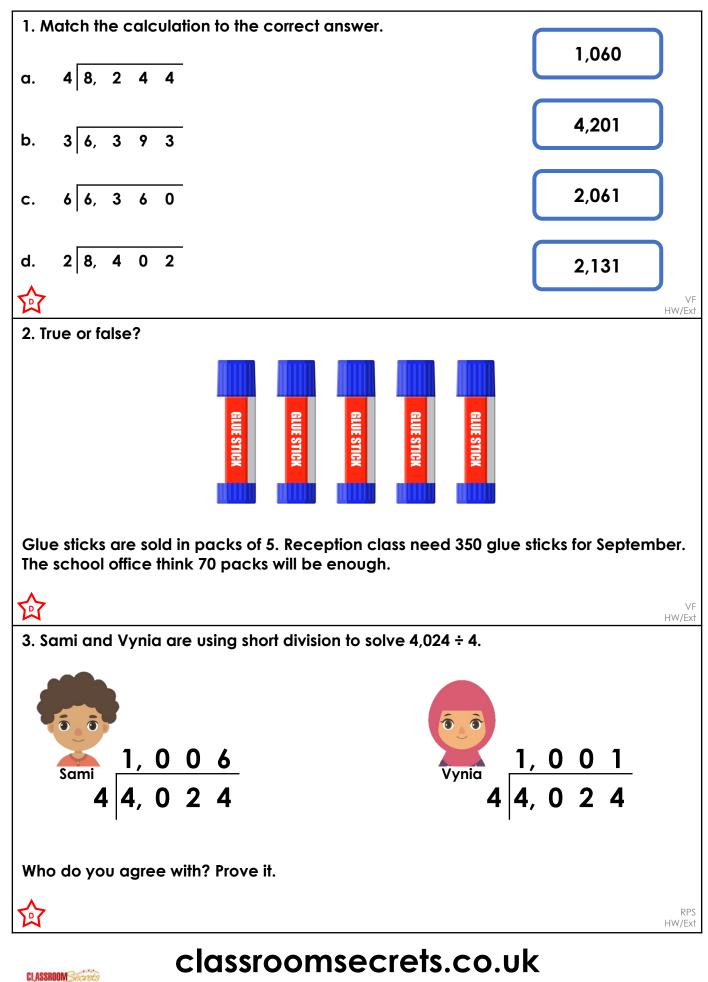
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Homework/Extension – Short Division – Teaching Information

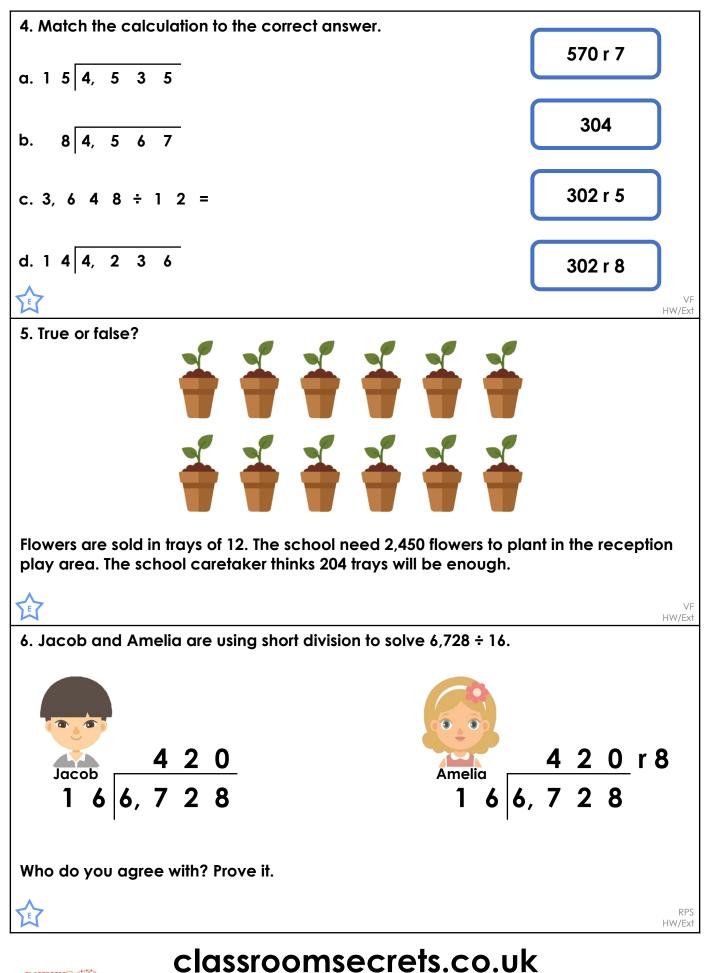
### **Short Division**



Homework/Extension - Short Division - Year 6 Developing

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### **Short Division**

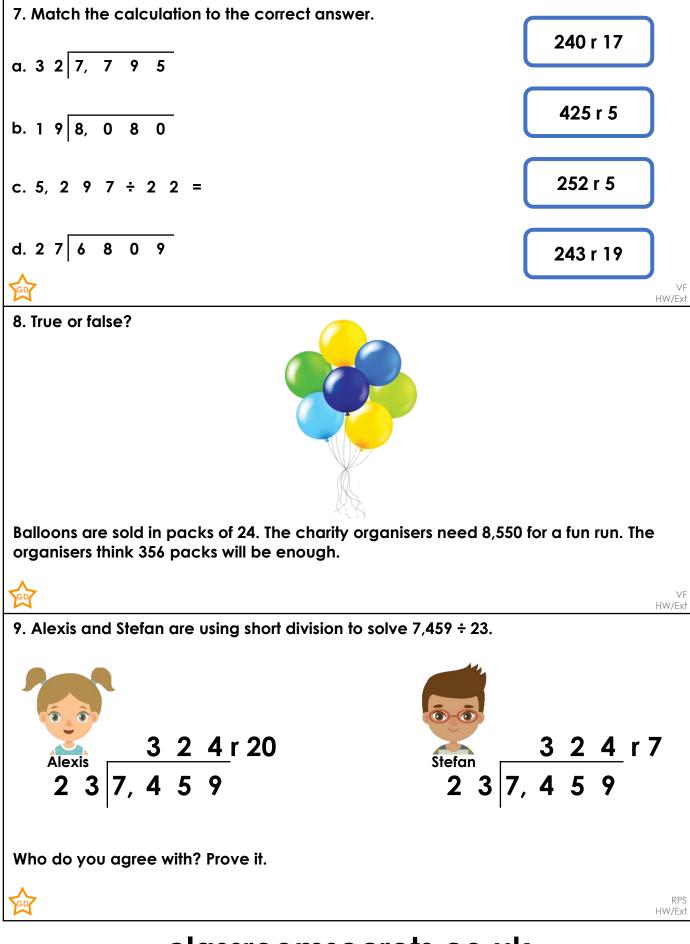


Homework/Extension – Short Division – Year 6 Expected

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Homework/Extension – Short Division – Year 6 Greater Depth

#### Homework/Extension Short Division

#### Developing

- 1. A = 2,061; B = 2,131; C = 1,060; D = 4,201
- 2. True
- 3. Sami is correct as Vynia has not correctly calculated the final digit ( $24 \div 4 = 6$ , not 1).

#### **Expected**

- 4. A = 302 r5; B = 570 r7; C = 304 ; D = 302 r8
- 5. False, the school will need 205 trays.
- 6. Amelia is correct as she has included the remainder 8 in her answer.

$$\begin{array}{r} 4 \ 2 \ 0 \\ 1 \ 6 \\ 6,^{6} \\ 7 \\ 32 \\ 8 \end{array}$$

#### <u>Greater Depth</u>

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- 7. A = 243 r19; B = 425 r5 ; C = 240 r17 ; D = 252 r5
- 8. False, the organisers will need 357 packs.
- 9. Stefan is correct as he has included the correct remainder (99  $\div$  23 = 4 r7, not 4 r20)



Homework/Extension – Short Division ANSWERS