Homework/Extension Step 4: Inverse Operations

National Curriculum Objectives:

Mathematics Year 5: (5C2) Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) Mathematics Year 5: (5C4) Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Check answers using an inverse operation. Includes up to 4-digit numbers with no exchanging. Uses column format.

Expected Check answers using an inverse operation. Includes up to 5-digit numbers and exchanging for both addition and subtraction. Uses column format.

Greater Depth Check answers using an inverse operation. Includes up to 5-digit numbers and exchanging for both addition and subtraction. Uses linear presentation with numbers presented in context, i.e. money, measurement.

Questions 2, 5 and 8 (Varied Fluency)

Developing Use an inverse operation to calculate missing numbers. Includes up to 4-digit numbers with no exchanging. Uses column format.

Expected Use an inverse operation to calculate missing numbers. Includes up to 5-digit numbers and exchanging for both addition and subtraction. Uses column format and some linear presentation.

Greater Depth Use an inverse operation to calculate missing numbers. Includes up to 5digit numbers and exchanging for both addition and subtraction. Uses linear presentation with numbers presented in context, i.e. money, measurement.

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

Developing Prove which calculation is correct when using an inverse operation. Includes up to 4-digit numbers with no exchanging. Uses column format and a bar model.

Expected Prove which calculation is correct when using an inverse operation. Includes up to 5-digit numbers and exchanging for both addition and subtraction. Uses column format and a bar model.

Greater Depth Prove which calculation is correct when using an inverse operation. Includes up to 5-digit numbers and exchanging for both addition and subtraction. Uses a bar model with numbers presented in context, i.e. money, measurement. Simple conversions required.

More Year 5 Addition and Subtraction resources.

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Inverse Operations



Homework/Extension – Inverse Operations – Year 5 Developing

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Homework/Extension – Inverse Operations – Year 5 Expected

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Who is correct? Complete your own calculation to prove it.

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Homework/Extension Inverse Operations



6. Toby is correct because the inverse is 45,648 - 13,462 = 32,186.

Greater Depth

7. A. \pounds 34,478 - \pounds 26,392 = \pounds 8,086 $\pounds 26,392 + \pounds 8,086 = \pounds 34,478$ or $\pounds 8,086 + \pounds 26,392 = \pounds 34,478$ B. 49,392m + 9,786m = 59,178m 59,178m – 49,392m = 9,786m or 59,178m – 9,786m = 49,392m C. 25,269p - 1,452p = 23,817p 23,827p + 1,452p = 25,269p or 1,452p + 23,827p = 25,269p 8. A. 73.238cm 16.356cm = 89.594cm ÷ 14,274km 18,609km Β. ÷ = 32.883km С. 13,456p 12,937p 519p =

9. Scarlett is correct because the inverse is 23,761p - £15.54 = 22,207p.

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