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| **Arithmetic – use jottings:** | | | |
| 49 ÷ 70 = | ½ + 1/3 = | ¼ x 1/8 = | 0.1 ÷ 5 = |
| 125 ÷ 5 = | 21 x 9 = | 8.1 ÷ 9 = | 123 + 39 = |
| **Reasoning questions – show your working:** | | | |
| and  each stand for a different number.     =  34  +  =  + +   What is the value of ? | | | |
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| What is the value of 4x + 7 when x = 5? | | | |
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| **Arithmetic – use jottings:** | | | |
| 1/3 + 5/8 = | ¼ x 3/9 = | 1032 – 289 = | 68 x 92 = |
| 0.25 ÷ 5 = | 1.4 ÷ 70 = | 82 ÷ 9 = | 182 ÷ 8 = |
| **Reasoning questions – show your working:** | | | |
| Ann makes a pattern of **L**  shapes with sticks.              Ann says: “I find the number of sticks for a shape by first multiplying the shape-number by 4, then adding 3”.   1. Work out the **number** of sticks for the shape that has shape-number **10.**      1. Ann uses **59 sticks** to   make another **L** shape in  this pattern. What is its  shape-number? | | Here are some picture frame sizes.         1. For each frame, the length is   **twice** the height, **subtract 4.** What is the **length** of a frame which has a **height** of **36cm**?   1. For each frame, the length **(L)**   is **twice** the height **(H)**, **subtract 4.**  Write this in symbols. | |
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| **Arithmetic – use jottings:** | | | |
| 1/8 x 3/7 = | 86 ÷ 5 = | 9.1 ÷ 9 = | 1/5 + 2/3 = |
| 123 ÷ 7 = | 102 – 89 = | 3246 ÷ 23 = | 0.108 + 1.065 = |
| **Reasoning questions – show your working:** | | | |
| In this equation N stands for  a number.  **5N – 2 = 3N + 12**  What is the value of N? | | **p + q = 1000**  p is **150 greater** than q.  Calculate the numbers p and q. | |
| Javed makes rectangular  frames with grey **centimeter**  **squares.**    ***n*** stands for the number of  grey centimetre squares in  a frame. Javed has a  formula for working out ***n***.  **n = 2 (l + w) – 4**  Javed makes a frame with ***l* = 28**and ***w* = 15**.  Use the formula to work  out how many grey  squares he uses. | | n stands for number.  Match the equivalent expressions.  One has been done for you. | |
| The sum of two numbers is 5.  The difference between the numbers  is 0.5.    What are the numbers? | |
| A, B and C stand for three  different numbers.  The **mean** of A and B is 40.  The **mean** of B and C is 35.  A + B + C = 100  Calculate the values of A, B and  C. | |