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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 inthis pattern. What is itsshape-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 fora 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 rectangularframes with grey **centimeter****squares.*****n*** stands for the number of grey centimetre squares ina frame. Javed has aformula for working out ***n***.**n = 2 (l + w) – 4**Javed makes a frame with ***l* = 28**and ***w* = 15**.Use the formula to workout how many greysquares 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 threedifferent numbers.The **mean** of A and B is 40.The **mean** of B and C is 35.A + B + C = 100Calculate the values of A, B andC. |