Stanground Academy

Mathematics Department

Year 9 Foundation

Home Learning Booklet – 27th April



Student’s Name:....................................................

Teacher:.................................................................

*Please Note; it is important to show your working out, if not you will not receive the marks.*

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| **Week 2** | **Lesson 1** |
| Q1)  23.5 + 38.24 | Q7)  18 – -31  **49** |
| Q2)  **61.74**  407 11  **37** | Q8)  4.5 x 8  **36** |
| Q3)  What is x in its simplest form? | Q9)  What is 11% of £310?  **34.1** |
| Q4)  Round 0.0314 to 1 significant figure  **0.03** | Q10)  Round 12.3842 to 2 decimal place  **12.38** |
| Q5)  Using prime decomposition find the prime factors of 42  *(HINT: the tree method)* | Q11) What is the perimeter of this shape?  9cm  14cm  7cm |
| Q6) What is the area of this shape?  **24**  **2x3x7**  4cm  5cm  **31.4cm**  6cm | Q12) What is the circumference of this circle to 1 decimal place?  **53cm**  10cm |
| **Week 2** | **Lesson 2** |
| Q1)  382 + -217 | Q7)  49.2 – 17.9 |
| Q2)  **165**  768 24  **32** | Q8)  **31.3**  41 x -9  **-369** |
| Q3) With a normal six sided dice, what is the probability of rolling a prime number? Put your answer in its simplest form.  **½** | Q9)  What is the nth term of the following sequence?  5, 8, 11, 14, 17, 20  **3n+2** |
| Q4)  What is 32% as a fraction in its simplest form?  **8/25** | Q10)  What is the Lowest Common Multiple of 12 and 8? |
| Q5)  What is the Highest Common Factor of 32 and 48?  **16** | Q11)  **24**  6c + 7 = 31, what does c equal?  **c = 4** |
| Q6)  Split £64 into the ratio 5:3  **£40 and £24** | Q12) In a class of 24 students 1/3 have brown hair, 50% have blonde, the rest have black hair.  **8**   1. How many students have brown hair? 2. How many Students have blonde hair?   c) How many students have black hair? |

**4**

**12**

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| **Week 2** | **Lesson 3** |
| Q1)  29.3 + -17.2 | Q7)  324 – 94.23 |
| Q2)  **12.1**  75 6  **12.5** | Q8)  **229.77**  4.2 x 1.3  **5.46** |
| Q3)  What is + ?  **35/36** | Q9)  What is 35% increase of £200?  **£270** |
| Q4)  Estimate 21 x 198  **4000** | Q10)  Round 5.8526 to 2 decimal place  **5.85** |
| Q5)  Write down all of the factors of 100  *(HINT: there are 9 factors)*  **1, 2, 4, 5, 10, 20, 25, 50, 100** | Q11) What is the perimeter of this shape?  **82cm**  23cm  6cm  18cm  8cm |
| Q6) What is the area of this shape?  23cm  6cm  18cm  8cm  **244**  **12.6** | Q12) What is the area of this circle to 1 decimal place?  2cm |
| **Week 2** | **Lesson 4** |
| Q1)  -23 + 41 | Q7)  -19.4 – 7.2 |
| Q2)  **18**  31.5 7  **4.5** | Q8)  **-26.6**  12.3 x 17  **209.1** |
| Q3) In a normal deck of cards what is the probability of picking a diamond card from the deck? Put your answer in its simplest form. | Q9)  What is the term to term rule of this sequence?  1, 3, 9, 27, 81, 243, ….  **x3** |
| Q4)  **1/4**  What is 13/20 as a percentage? | Q10)  What is the Lowest Common Multiple of 10 and 12? |
| Q5)  **65%**  What is the Highest Common Factor of 54 and 36? | Q11)  **60**  3b – 2 = 25, what does b equal?  **b = 9** |
| Q6)  **18**  Split 121 into the ratio 5:6  **55 and 66** | Q12) Order the following from smallest to largest  0.47, 1/2, 51%, 0.41,  **0.41, 0.47, 1/2, 51%** |