Stanground Academy

Mathematics Department

Year 9 Foundation

Home Learning Booklet – 4th May



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 3** | **Lesson 1** |
| Q1)  47.2 + 23.9 | Q7)  251 – 178 |
| Q2)  648 9 | Q8)  24 x 19 |
| Q3)  What is in its simplest form? | Q9)  What is 23% of £800? |
| Q4)  Round 327273 to 2 significant figures | Q10)  Round 9.464915 to 2 decimal places |
| Q5)  Using prime decomposition find the prime factors of 28  *(HINT: the tree method)* | Q11) What is the perimeter of this shape?  7.2cm  12.8cm |
| Q6) What is the area of this shape?  6cm  7cm  9cm | Q12) What is the circumference of this circle to 1 decimal place?  6cm |
| **Week 3** | **Lesson 2** |
| Q1)  327 + -217 | Q7)  27.25 – 15.8 |
| Q2)  425 25 | Q8)  53 x -7 |
| Q3 With a normal six sided dice, what is the probability of rolling an odd number? Put your answer in its simplest form. | Q9)  What is the nth term of the following sequence?  9, 11, 13, 15, 17, 19 |
| Q4)  What is 28% as a fraction in its simplest form? | Q10)  What is the Lowest Common Multiple of 10 and 12? |
| Q5)  What is the Highest Common Factor of 24 and 60? | Q11)  5a + 9 = 44, what does a equal? |
| Q6) Ratio  Split £96 into the ratio 6:2 | Q12) In a class of 32 students 1/4 have brown hair, 37.5% have blonde, the rest have black hair.   1. How many students have brown hair? 2. How many Students have blonde hair?   c) How many students have black hair? |

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| **Week 3** | **Lesson 3** |
| Q1)  72.32 + 37.24 | Q7)  1952 – 637.8 |
| Q2)  63 4 | Q8)  2.7 x 4.9 |
| Q3)  What is + ? | Q9)  What is 12% increase of £200? |
| Q4)  Estimate 32 x 492 | Q10)  Round 9.34717 to 1 decimal place |
| Q5)  Write down all of the factors of 64  *(HINT: there are 7 factors)* | Q11) What is the perimeter of this shape?  17cm  5cm  15cm  6cm |
| Q6) What is the area of this shape?  17cm  5cm  15cm  6cm | Q12) What is the area of this circle to 1 decimal place?  7cm |
| **Week 3** | **Lesson 4** |
| Q1)  -32 + 57 | Q7)  -83.5 – 42.5 |
| Q2)  28.2 3 | Q8)  31.3 x 19 |
| Q3) In a normal deck of cards what is the probability of picking a red card from the deck? Put your answer in its simplest form. | Q9)  What is the 12th term of the sequence 3n+4? |
| Q4)  What is 5/8 as a percentage? | Q10)  What is the Lowest Common Multiple of 15 and 20? |
| Q5)  What is the Highest Common Factor of 66 and 88? | Q11)  12b – 5 = 43, what does b equal? |
| Q6) Ratio  Split 156 into the ratio 9:4 | Q12) Order the following from smallest to largest  0.625, , 66%, 0.59, |