Stanground Academy

Mathematics Department

Year 9 Foundation

Home Learning Booklet – 11th 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 4** | **Lesson 1** |
| Q1)  372 + 5226 | Q7)  925 – 517 |
| Q2)  407 11 | Q8)  34 x 23 |
| Q3)  What is in its simplest form? | Q9)  What is 37% of £800? |
| Q4)  Round 992 to 1 significant figure | Q10)  Round 32.7358 to 2 decimal places |
| Q5)  Using prime decomposition find the prime factors of 84  *(HINT: the tree method)* | Q11) What is the perimeter of this shape?  7.5cm  14.3cm |
| Q6) What is the area of this shape?  7cm  6cm  9cm  9cm | Q12) What is the circumference of this circle to 2 decimal places?  4cm |
| **Week 4** | **Lesson 2** |
| Q1)  84 + -90 | Q7)  32.41 – 19.2 |
| Q2)  247 13 | Q8)  27 x -9 |
| Q3 When picking a letter from the alphabet what is the probability of picking a consonant? | Q9)  What is the nth term of the following sequence?  21, 16, 11, 6, 1, …. |
| Q4)  What is 65% as a fraction in its simplest form? | Q10)  What is the Lowest Common Multiple of 6 and 9? |
| Q5)  What is the Highest Common Factor of 75 and 50? | Q11)  7a – 12 = 23, what does a equal? |
| Q6)  Split £144 into the ratio 9:3 | Q12) In a class of 250 people in year 9, 1/5 have blonde hair, 40% have brown hair and 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 4** | **Lesson 3** |
| Q1)  25.47 + 96.54 | Q7)  826 – 637.8 |
| Q2)  632 10 | Q8)  1.8 x 3.2 |
| Q3)  What is + ? | Q9)  What is 21% increase of £400? |
| Q4)  Estimate 47 x 309 | Q10)  Round 9.981 to 1 decimal place |
| Q5)  Write down all of the factors of 80  *(HINT: there are 8 factors)* | Q11) What is the perimeter of this shape?  21cm  6cm  30cm  7cm |
| Q6) What is the area of this shape?  21cm  6cm  30cm  7cm | Q12) What is the area of this circle to 1 decimal place?  10cm |
| **Week 4** | **Lesson 4** |
| Q1)  -49 + 63 | Q7)  -27.2 – 93 |
| Q2)  29.4 7 | Q8)  9.3 x 25 |
| Q3) In a normal deck of cards what is the probability of picking either a 3 or a club from the deck? Put your answer in its simplest form. | Q9)  What is the 17th term of the sequence 5n–3? |
| Q4)  What is 3/8 as a percentage? | Q10)  What is the Lowest Common Multiple of 15 and 25? |
| Q5)  What is the Highest Common Factor of 160 and 120? | Q11)  20b – 8 = 152, what does b equal? |
| Q6) Ratio  Split 220 into the ratio 11:9 | Q12) Order the following from smallest to largest  22%, , 30%, 0.27, |