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 $\frac{2}{6}$ $÷$ $\frac{5}{9}$ 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?7.5cm14.3cm |
| Q6) What is the area of this shape?7cm6cm9cm9cm | 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 $\frac{3}{4}$ + $\frac{2}{9}$? | 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?21cm6cm30cm7cm |
| Q6) What is the area of this shape?21cm6cm30cm7cm | 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) RatioSplit 220 into the ratio 11:9 | Q12) Order the following from smallest to largest 22%, $\frac{13}{50}$, 30%, 0.27, $\frac{5}{20}$  |