Stanground Academy

Mathematics Department

Year 9 Foundation

Home Learning Booklet – 8th June



ANSWERS

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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|  | **Lesson 1** |
| Q1)  97.2 + 28.4  **125.6** | Q7)  91.5 – 35.6 |
| Q2)  925 5  **185** | Q8)  **55.9**  8.5 x 12  **102** |
| Q3)  What is of 80?  **32** | Q9)  What is 45% of £420?  **£189** |
| Q4)  Round 936731 to 3 significant figures  **937000** | Q10)  Round 7.26234 to 2 decimal places  **7.26** |
| Q5)  Write down all of the factors of 60  *(HINT: there are 12 factors)*  **1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60** | Q11) What is the perimeter of this shape?  **38cm**  6cm  6cm  13cm  13cm |
| Q6) What is the area of this shape?  20cm  7cm  7cm  **140**  20cm | Q12) What is the circumference of this circle in terms of ?  **7 cm**  7cm |
|  | **Lesson 2** |
| Q1)  72.54 + 27.46 | Q7)  127.1 – 91.8  **35.3** |
| Q2)  **100**  196 7  **28** | Q8)  28 x 7  **196** |
| Q3) There are 24 white beads and 36 red beads in a bag. There are no other beads in the bag.  Jim takes at random a bead from the bag. Write down the probability that the bead will be white.  **24 = 2**  **60 5** | Q9)  What are the next two terms in the sequence:  7, 16, 25, 34, …., …… |
| Q4)  What is 34% as a fraction?  **34/100 or 17/50** | Q10)  **43, 52**  What is the Lowest Common Multiple of 6 and 8?  **24** |
| Q5)  What is the Highest Common Factor of 60 and 45?  **15** | Q11)  6a – 15 = 33, what does a equal?  **a = 8** |
| Q6) Ratio  Split £140 into the ratio 5:2  **£100 and £40** | Q12) In Y9 of 280 students 1/4 have brown hair, 40% have blonde, the rest have black hair.  **70**   1. How many students have brown hair? 2. How many Students have blonde hair?   **112**  c) How many students have black hair? |

**98**

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|  | **Lesson 3** |
| Q1)  91.532 + 21.484  **113.016** | Q7)  484 – 251.6  **232.4** |
| Q2)  459 9  **51** | Q8)  23 x 18  **414** |
| Q3)  What is bigger or  **7/12** | Q9)  What is 12% of £230?  **27.6** |
| Q4)  Round 4735 to 1 significant figure  **5000** | Q10)  Round 9. 6137 to 1 decimal place  **9.6** |
| Q5)  Write down all of the factors of 45  *(HINT: there are 6 factors)*  **1, 3, 5, 9, 15, 45** | Q11) What is the perimeter of this shape?  18.4cm  21.2cm |
| Q6) What is the area of this shape?  8cm  9cm  **67.5**  15cm | Q12) What is the area of this circle in terms of ?  **79.2cm**  **36**  6cm |
|  | **Lesson 4** |
| Q1)  87.51 + 46.28  **133.79** | Q7)  72 – 85  **-13** |
| Q2)  492 12  **41** | Q8)  2.5 x 46  **115** |
| Q3) There are 80 white beads and 120 red beads in a bag. There are no other beads in the bag.  Jim takes at random a bead from the bag. Write down the probability that the bead will be red in its simplest form. | Q9)  What are the next two terms in the sequence:  1, 3, 6, 10, …., …..  **15, 21** |
| Q4)  **120/200 = 3/5**  What is 7/8 as a decimal?  **0.875** | Q10)  What is the Lowest Common Multiple of 4 and 10?  **20** |
| Q5)  What is the Highest Common Factor of 21 and 35?  **7** | Q11)  20b + 52 = 172, what does b equal?  **b = 6** |
| Q6) Ratio  Split £135 into the ratio 3:6  **45 and 90** | Q12) Order the following from smallest to largest  0.74, 3/4, 78%, 0.8,  **0.74, 3/4, 78%, 0.8,** |